

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Ampolex (Texas), Inc.

3. ADDRESS OF OPERATOR

1225 17th Street, Suite 3000 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

624' FSL 684' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

See Topo Map "A"

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

624'

16. NO. OF ACRES IN LEASE

1360

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

6150'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6091' GR.

22. APPROX. DATE WORK WILL START*

A.S.A.P.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36 K-55	1870'	To Surface
8 3/4"	5 1/2"	17 K-55	T.D.	T.O.C. above all pay zones

RECEIVED

JUL 27 1992

DIVISION OF
OIL GAS & MINING

Be advised that Ampolex (Texas), Inc. is considered
to be the operator of the proposed well and is responsible
under the terms and conditions of the Lease for all
operations conducted on leased lands.

Bond coverage for this well is provided by
Nationwide Surety #69HF3973.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Robert C. Arceneaux

TITLE

Senior Petroleum Engineer

APPROVED BY THE STATE

OIL, GAS, AND MINING DIVISION 7/23/92

(This space for Federal or State office use)

PERMIT NO.

43-037-31687

APPROVAL DATE

DATE:

BY:

WELL SPACING:

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

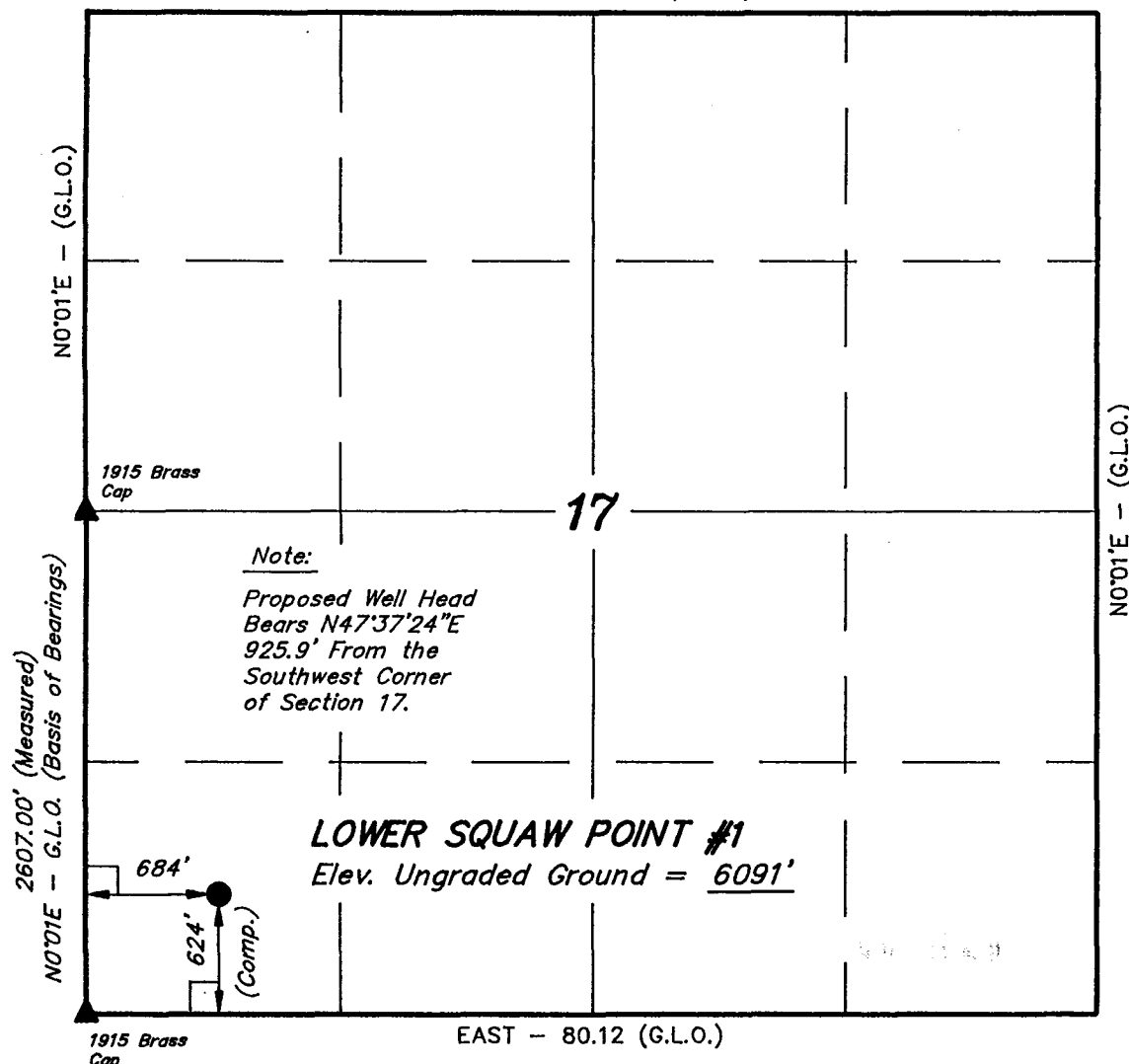
DATE: 7-29-92

BY: *[Signature]*

WELL SPACING: 2649-2-3

T37S, R26E, S.L.B.&M.

N89°57'E - 80.18 (G.L.O.)



LOWER SQUAW POINT #1
Elev. Ungraded Ground = 6091'

LEGEND:

- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**PROPOSED WELL HEAD
STATE PLANE COORDINATES:**

X = 2,697,695

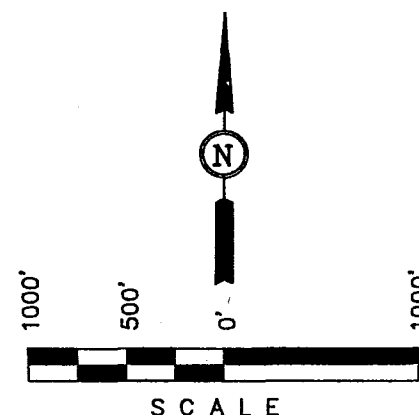
Y = 335,979

AMPOLEX (TEXAS) INC.

Well location, LOWER SQUAW POINT #1, located as shown in the SW 1/4 SW 1/4 of Section 17, T37S, R26E, S.L.B.&M. San Juan County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 17, T37S, R26E, S.L.B.&M. TAKEN FROM THE PAPOOSE CANYON QUADRANGLE, UTAH - COLORADO, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6070 FEET.



CERTIFICATION

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 5709
ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 7-9-92 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 6-1-92	DATE DRAWN: 6-18-92
PARTY G.S. R.A. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE AMPOLEX (TEXAS) INC.	

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company: Ampolex (Texas), Inc. Well No: Lower Squaw Point #1

Location: Sec: 17 T. 37S R. 26E Lease No. U-57609

Onsite Inspection Date: July 10, 1992.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM:

1. Surface Formation and Estimated Formation Tops:

<u>FORMATION</u>	<u>TVD, KB</u>	<u>SUBSEA</u>	<u>TRUE VERTICAL THICKNESS</u>
Dakota	Surface		15'
Morrison	15'	+6,045'	950'
Entrada SS	965'	+5,095'	155'
Carmel	1,120'	+4,940'	35'
Navajo SS/Kayenta & Wingate SS	1,155'	+4,905'	650'
Chinle	1,805'	+4,255'	765'
Shinarump Congl	2,570'	+3,490'	100'
Cutler (may include Moenkopi)	2,670'	+3,390'	1,855'
Upper Hermosa	4,555'	+1,505'	1,200'
Upper Ismay	5,755'	+ 305'	85'
Hovenweep Sh.	5,840'	+ 220'	70'
Lower Ismay	5,910'	+ 150'	20'
Anhdrite	5,930'	+ 130'	20'
Carbonate	5,950'	+ 110'	10'
Gothic Shale	5,960'	+ 100'	25'
Upper Desert Creek	5,895'	+ 75'	10'
Anhydrite	5,995'	+ 65'	15'
Carbonate	6,010'	+ 50'	15'
Lower Desert Creek	6,025'	+ 35'	10'
Anhydrite	6,035'	+ 25'	10'
Pay Zone	6,045'	+ 15'	25'
Base Pay	6,070'	- 10'	10'
Chimney Rock Sh.	6,080'	- 20'	17'
Akah	6,097'	- 37'	30'
Salt	6,127'	- 67'	
Total Depth	6,130'		

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2. Estimated Depth at which Oil, Gas, Water or other Mineral-Bearing Zones are expected to be encountered:

	<u>Formation</u>	<u>Depth</u>
Expected Oil & Gas Zones:	Upper Ismay	5,755'
	Lower Ismay	5,910'
	Lower Desert Creek	6,045'

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

(A). After initial WOC time, a 9-5/8", 3,000# casing head will be installed. Minimum requirement for BOP equipment will consist of a 10", 3,000# double ram preventer with blind and pipe rams and one 10", 3,000# annular BOP.

(B). BOP rams and accessories including upper kellycock, floor safety valve and choke manifold will be pressure tested as per BLM approved NTL-6. Enter BOP tests in the Daily Tour Book. The pipe rams will be operationally checked each 24 hours. Blind rams will be operationally checked each time pipe is pulled out of the hole, but not more than once a day. Studs on all wellhead and BOP flanges should be checked for tightness each week. Hand wheels for locking screws shall be installed and operational and the entire BOP and wellhead assembly shall be kept clean of mud. A drill stem safety valve in the open position shall be available on the rig floor at all times.

(C). BOP equipment will be pressure tested again prior to drilling into the Lower Desert Creek Formation.

(D). Uncased hole is NOT to be pressured during BOP tests!

(E). Keep hole full at all times during tripping operations. If pipe or tools are to be left stationary at any time in open hole, the kelly is to be picked up, the pipe rotated and circulation maintained.

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4. Casing Program and Auxiliary Equipment:

Surface Pipe: 9-5/8", 36#, K-55, LT&C to be set in 12-1/4" hole at 1,870' (minimum of 50' into the Chinle). Guide shoe and insert float collar with fill up to be run on bottom joint with one (1) centralizer in the middle. Additional centralizers to be spaced out every fourth joint.

Cement: Hole volume plus 100% excess of Light Cement lead slurry with 2% CCL and 1/4 lb./sk Flocele and tail in with 250 sx Class "G" with 2% CCL and 1/4 lb./sk Flocele.

Production Casing:

5-1/2", 17#, K-55 set at TD in 7-7/8" hole. Guide shoe and differential fill float collar to be run on first joint. Centralizers and scratchers to be run across all potential zones of production.

Cement: Use sufficient volume of cement to bring TOC above all possible pay zones. Cementing program to be determined after logging.

Anticipated cement tops will be reported as to depth, not the expected number of sacks.

5. Mud Program and Circulating Medium:

Surface Hole: Drill with fresh water using gel and lime for

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viscosity and mica to
control seepage.

Main Hole:

Drill out from surface
pipe using fresh water,
lime and flocculants. At
 $\pm 4,500'$, clean out mud
tanks and "mud-up" with a
gel mud 8.8 - 9.0 ppg,
30-35 sec/qt vis. and 10-
15 cc water loss.
Maintain mud properties
for DST at all times. At
 $\pm 6,010'$ raise mud wt. to
11.0 ppg by adding barite
before drilling into the
Lower Desert Creek Fm.
and maintain weight to
TD. A detailed mud
program will be furnished
by the mud supplier. All
recommendations made by
the mud engineer must be
followed.

Operations will be conducted in accordance with ONSHORE
OIL AND GAS ORDER NO. 2; DRILLING OPERATIONS, except
where advance approval for a variance has been obtained.

6. Coring, Logging, and Testing Program:

Core: One (1)-60' in the Lower Desert Creek

Drill Stem Tests: One (1) probable - Lower Desert Creek
One (1) possible - Upper & Lower Ismay

A test of the top of the porosity will be conducted under
the following circumstances:

1. Top of porosity should be indicated by a
drilling break. Drill 10' into the break or
until a definite decrease in drill rate is
observed, whichever is the lesser.
2. Circulate for samples and gas shows. If
cuttings show good visual porosity and are
accompanied by significant increases in gas

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notify Ampolex personnel of same and prepare to DST.

Open Hole Logs: DLL - MSFL - TD to 4,500'.

FDC-CNL - TD to 4,500'.

LSS - TD to base of surface casing with GR to surface.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4 will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1(b). Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

NOTE: **ABNORMAL PRESSURE IS EXPECTED TO BE
ENCOUNTERED IN THE LOWER DESERT
CREEK - 3,300 -3,400 psi.**

8. Anticipated Starting Dates and Notifications of Operations:

Required verbal notifications are summarized in Table I, attached. Written notification in the form of a Sundry Notice (Form 3160-5 will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with Minerals Management Service.

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IMMEDIATE REPORT: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference may be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed thirty (30) days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6(d) and Onshore Oil and Gas Order NO. 2.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

Well name and number, location by 1/4 1/4 Section, Township and Range, Lease Number and Operator.

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B. THIRTEEN-POINT SURFACE USE PLAN:

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point: See Topo Map "A".
- b. Proposed route to location: See Topo Map "A" and Topo Map "B".
- c. Plans for improvement and/or maintenance of existing roads: The existing access road to this well is County Road #347 and will need no improvement.
- d. An encroachment permit will be obtained from the San Juan County Road Department (801)587-2231, Ext. 43 for use of county roads.

2. Planned Access Roads:

Approximately 20 feet of new road, 30 feet of maximum disturbed width would be constructed.

The access (including any existing non-county) road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of completion of drilling operations.

Ditched, crowned, culverts in place where required, and surfaced with rock. No cattleguards will be needed.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance of usage.

The topsoil from the access road will be reserved in place.

A Right-of-Way for the portion of road highlighted in pink on Topo Map "B" and approximately 500' miles in length will be needed. Application for said Right-of-Way is hereby made.

3. Location of Existing Wells: None in a 1-mile radius.

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4. All permanent above-ground facilities (in place six months or longer) will be painted a neutral, juniper green color as required by the Authorized Officer, except for those facilities or portions thereof required to comply with the Occupational Safety and Health Act or written company safety manual or documents. The paint on the surfaces of the facilities will be maintained as required by the Authorized Officer.

If a tank battery is constructed on this location it will be surrounded by a dike of sufficient capacity to contain 1.5 times the storage capacity of the largest tank + one days production entering the battery. All load lines and valves will be placed inside the dike surrounding the tank battery. The tank battery and berm, any pits, and any production facilities shall be fenced and the fence will be maintained. The gates shall be kept closed.

All site security guidelines identified in 43 CFR 3162.7-5 and ONSHORE OIL AND GAS ORDER NO. 3; SITE SECURITY will be adhered to.

Gas measurement will be conducted in accordance with the ONSHORE OIL AND GAS ORDER NO. 5; GAS MEASUREMENT and 43 CFR 3162.7-3.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the well head to the meter and downstream for the remainder of the pad. Meter runs will be housed and/or fenced.

Oil measurement will be conducted in accordance with ONSHORE OIL AND GAS ORDER NO. 4; OIL MEASUREMENT and 43 CFR 3162.7-2.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from four (4) privately owned sources. They are as follows:

- (1) Water well owned by Clyde Watkins, located South 2722' and East 10' from the NW corner, Sec. 1, T37S, R22E, S.L.B. & M.

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- (2) Water well owned by Grady Ragsdale, located in the NE1/4 NE1/4, Sec. 23, T40N, R19W, Delores County, Colorado.
- (3) Water Well owned by Richard Perkins, located North 2350' and West 444' from the SE corner, Sec. 12, T38S, R24E, S.L.B. & M.
- (4) Town of Dove Creek, Colorado.

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of that water.

6. Source of Construction Material:

Pad construction material will be obtained from on site and in place materials.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.

7. Methods of Handling Waste Disposal:

The reserve pit will be constructed with at least 1/2 of the capacity in cut material and will be lined with 24 tons of bentonite. The sides of the pit shall be sloped no greater than three to one. If bentonite is used as lining material it shall be worked into the soil.

The sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operations cease with four (4) strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four (4) feet. The fence will be kept in good repair while the pit is drying.

No liquid hydrocarbons (i.e. fuels, lubricants, formation) will be discharged to the reserve pit, location, or on the access road. In the event of an accident and hydrocarbons are allowed to escape, all hydrocarbons will be cleaned up and removed within 48 hours.

No chrome compounds will be on location.

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Produced waste water will be confined to the reserve pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to NTL-2B.

Other:

Portable Chemical Toilet will be provided.
Garbage and trash will be disposed of in trash bin. The trash bin will be totally enclosed with small mesh wire to prevent wind scattering trash before being removed. Reserve pit will be fenced on three sides during drilling and the fourth side fenced upon removal of the rig.

After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All open pits will be fenced during drilling and kept closed until the pit is leveled.

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

The reserve pit will be located: See attached layout sheet.

10. Plans for Restoration of Surface:

- A. Within 24 hours of completion of drilling, the location and surrounding area will be cleared of everything not required for production.
- B. As soon as the reserve pit has dried all areas not needed for production (including the access road) will be filled in, contoured to approximately natural contours and as much top soil as was removed, (approximately 12") replaced, leaving sufficient for future restoration. This area will then be seeded. The remaining top soil will be stabilized and seeded in place. If the well is a dry hole, the location and access road will be rehabilitated in total.

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- C. The area will be seeded between October 1 and February 28 with:

8 lbs/acre - Crested Wheatgrass
4 lbs/acre - Fourwing Saltbrush
2 lbs/acre - Desert Bitterbrush
1 lbs/acre - Wild Sunflower

The pounds of seed listed above is pure live seed.

- D. Seed will be broadcast followed by a light harrowing. If the seed is drilled, the seeding rate can be reduced by 25% and harrowing can be eliminated.

11. Surface and Mineral Ownership: B.L.M.
12. Other Information: Same on new construction as old.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned and/or separate facilities, will be identified in accordance with 43 CFR 3162.6.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 31262.6.

The dirt contractor will be provided with an approved copy of the surface use plan.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

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- whether the materials appear eligible for the National Register of Historic Places:
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

This permit will be valid for one (1) year from the date of approval. After permit termination; a new application will be filed for approval for any future operations.

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

13. Lessee's or Operator's Representative and Certification:

Representative:

Name: Robert C. Arceneaux
Address: 1225 17th Street, Suite #3000
Denver, Colorado 80202
Telephone No.: (303) 297-1000

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Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with operation proposed herein will be performed by: **Ampolex (Texas), Inc.**

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

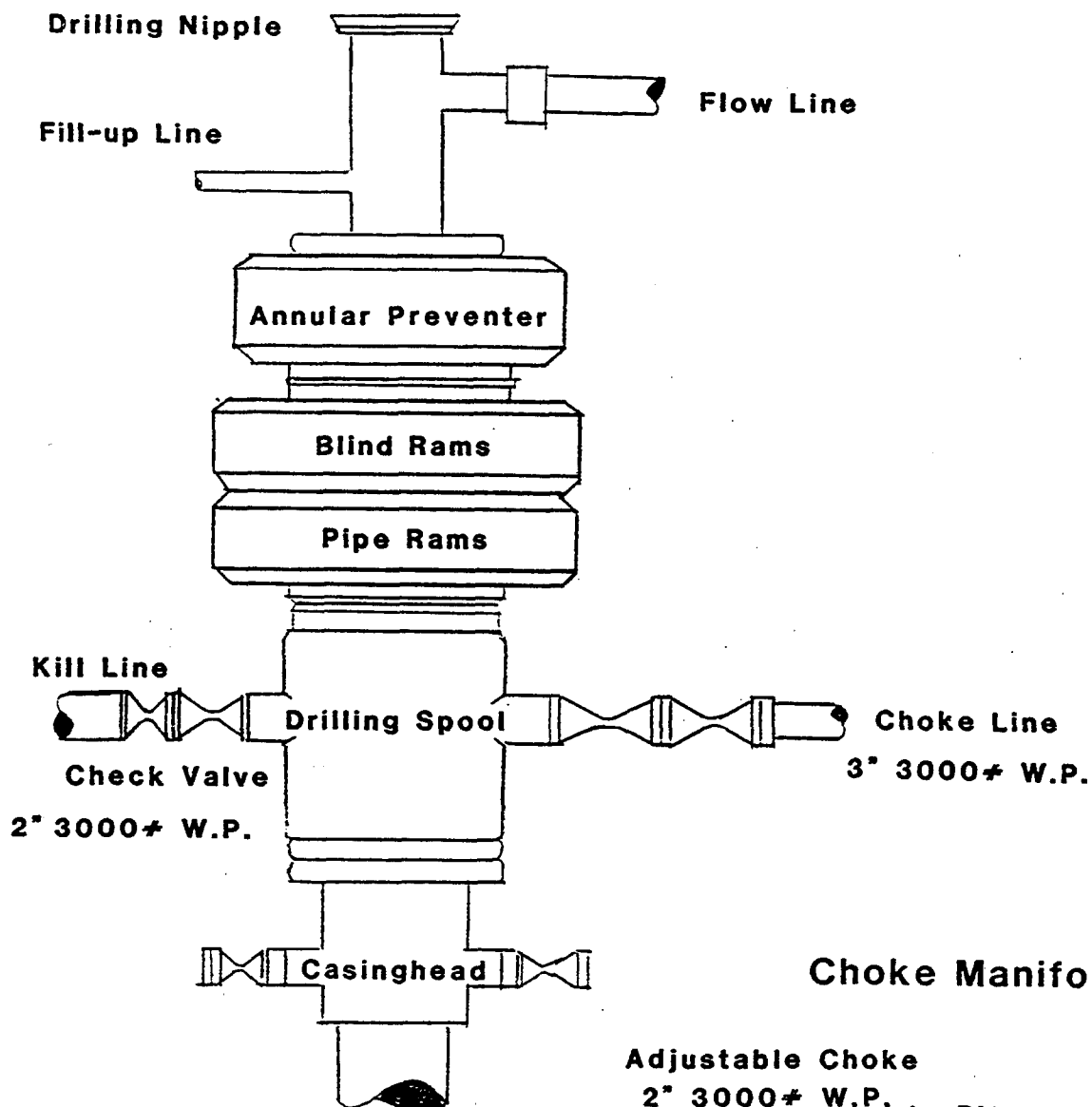
Name: *Robert C. Arceneaux*

Title: Robert C. Arceneaux
Senior Petroleum Engineer

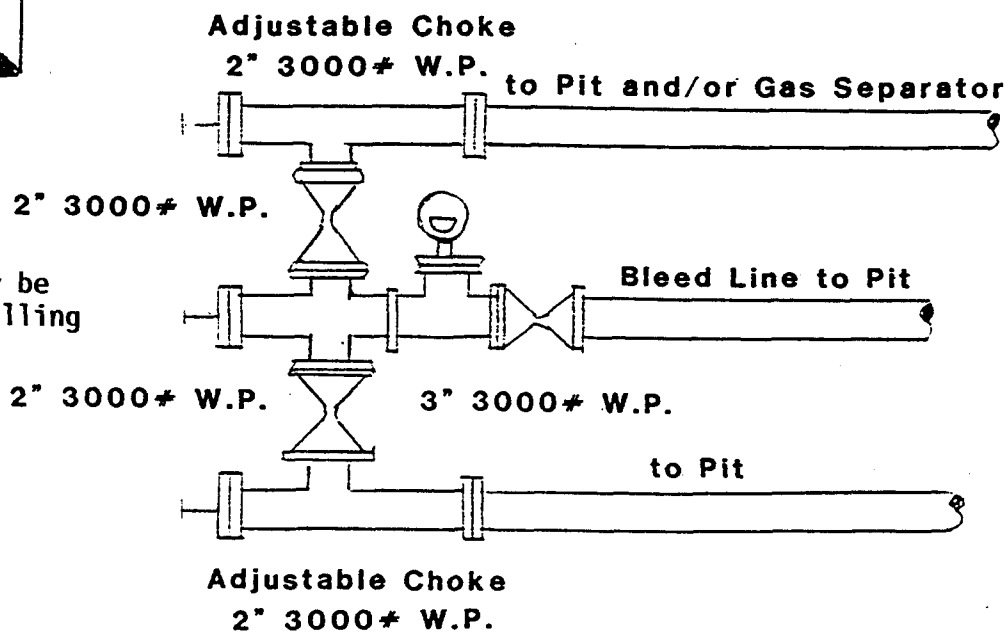
Date: July 23, 1992

EXHIBIT C
Blow Out Preventer Equipment

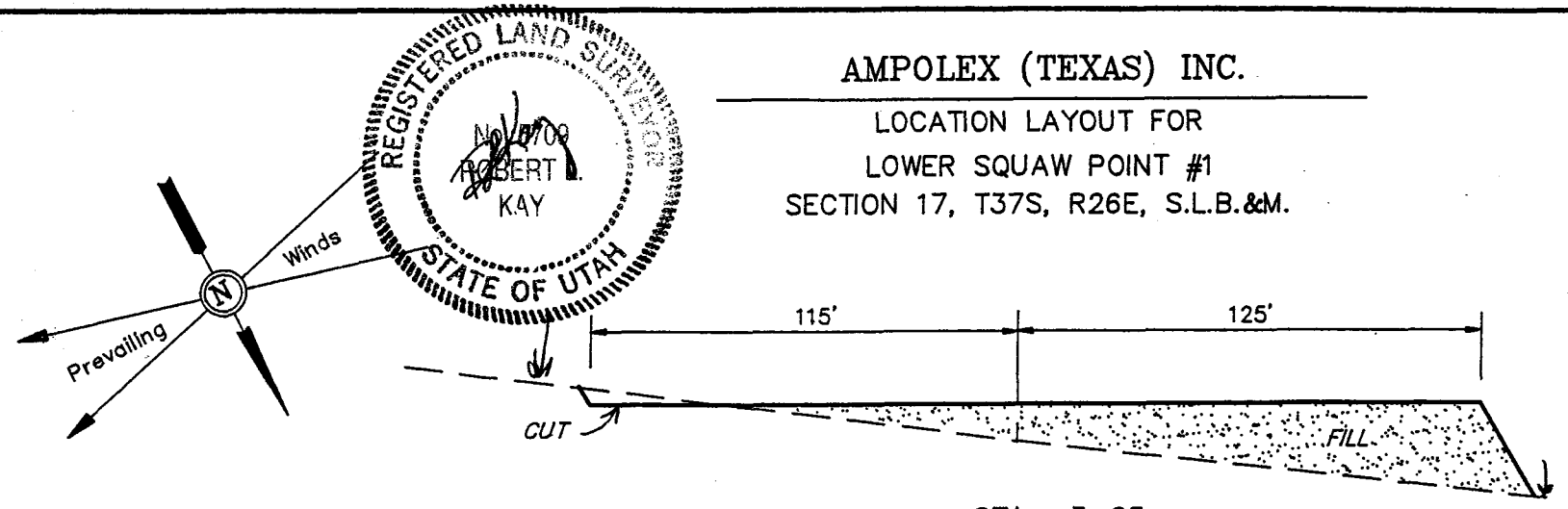
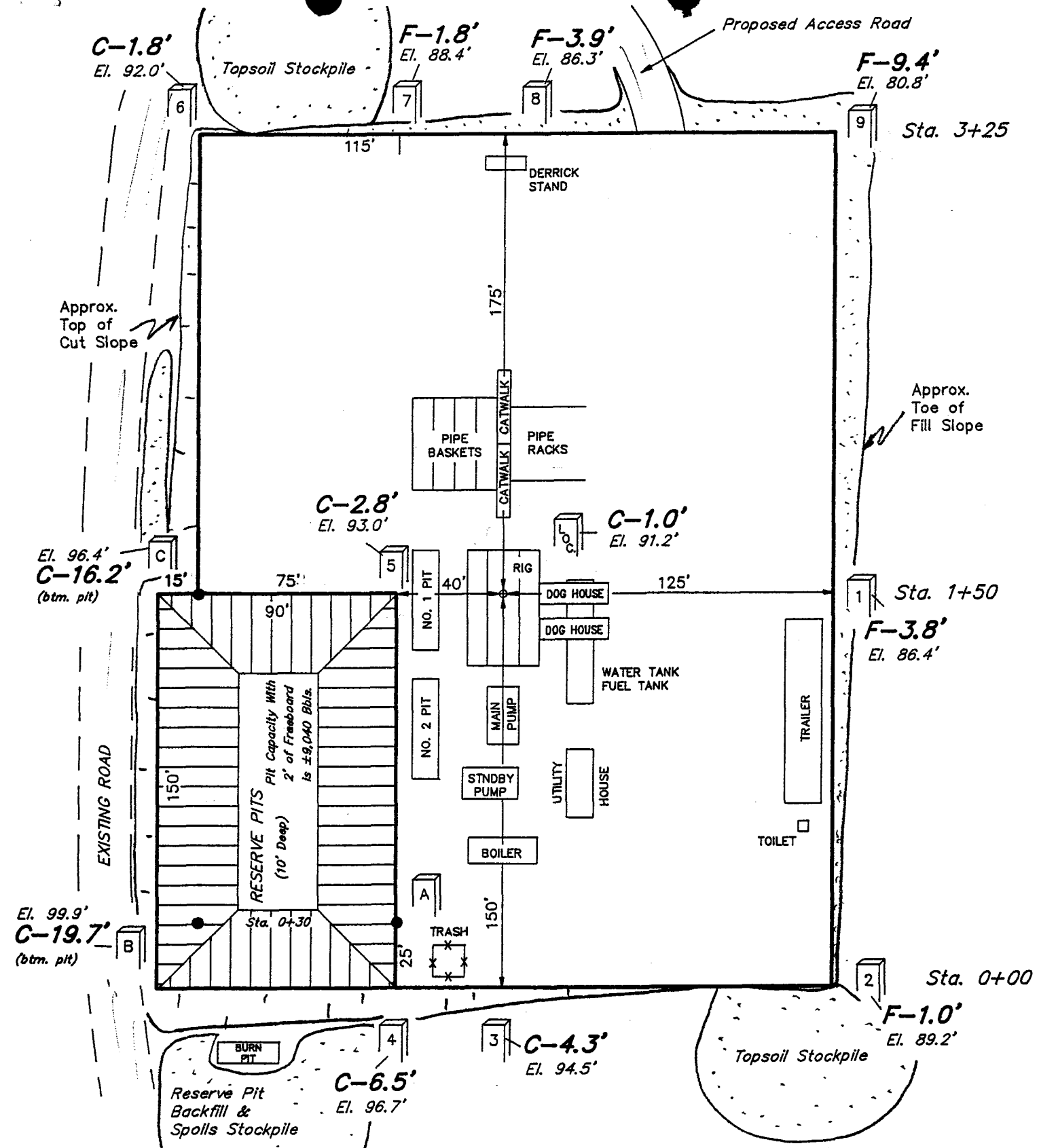
BOP Stack



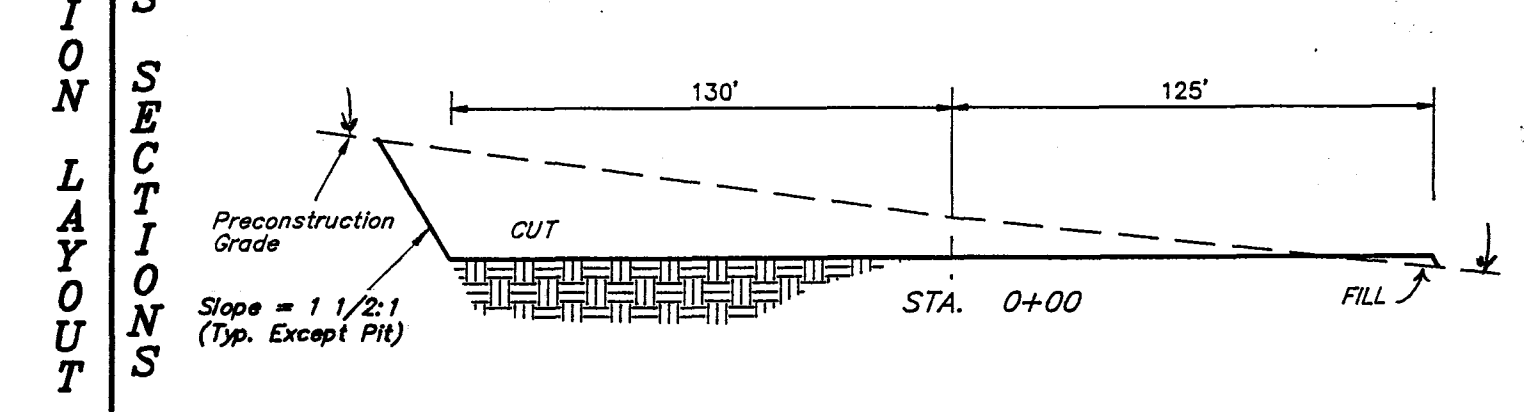
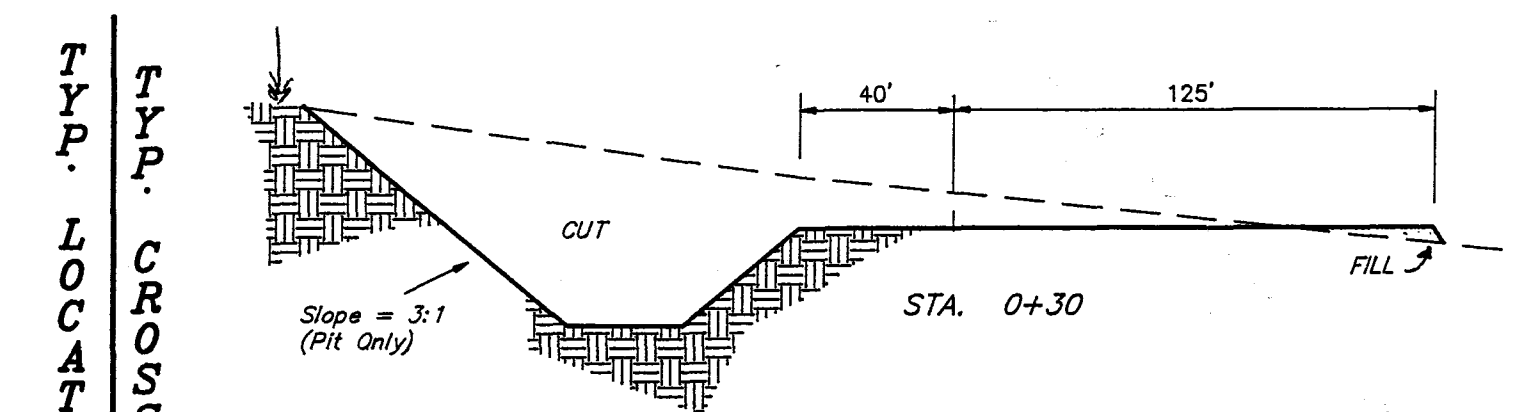
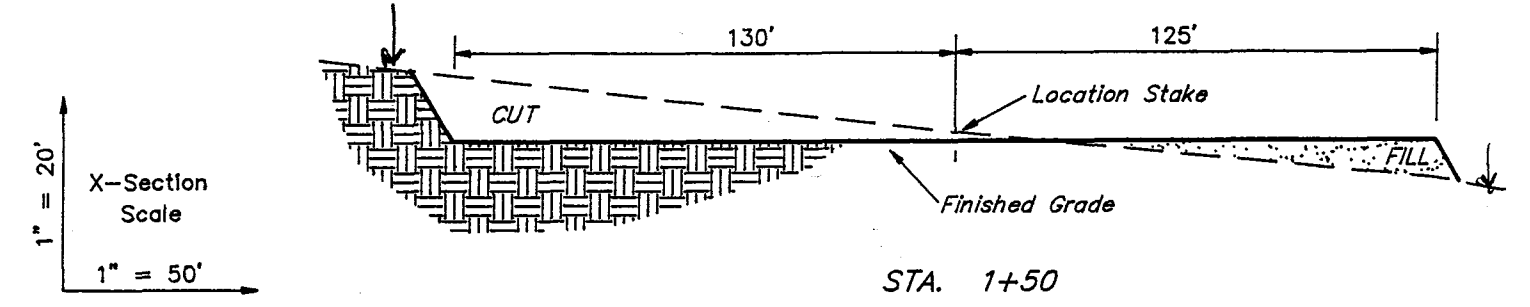
Choke Manifold



NOTE: BOP side outlets may be used in place of drilling spool.



SCALE: 1" = 50'
 DATE: 6-18-92
 Drawn By: R.E.H.
 REVISED: 7-12-92 R.E.H.



APPROXIMATE YARDAGES

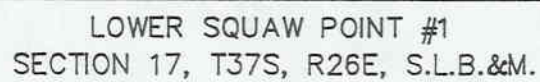
CUT	
(12") Topsoil Stripping	= 2,980 Cu. Yds.
Remaining Location	= 7,950 Cu. Yds.
TOTAL CUT	= 10,930 CU.YDS.
FILL	= 6,230 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 4,370 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,370 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = **6091.2'**
 FINISHED GRADE ELEV. AT LOC. STAKE = **6090.2'**

UINTAH ENGINEERING & LAND SURVEYING
 85 South 200 East Vernal, Utah





APD WORKSHEET
Division of Oil, Gas and Mining

OPERATOR: AMPOLEX (TEXAS) INC
WELL NAME: LOWER SQUAW POINT 1

J-0385

APD RECEIVED: 07/27/92

API ASSIGNED: 43-037-31687

LEASE TYPE: FED LEASE NUMBER: J-57609
LOCATION: SWSW 17 - T37S - R26E SAN JUAN COUNTY
FIELD: WILDCAT CODE: 001

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond
(Number federal)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number 09-1800 T66340)
☒ Sent to RDCC (Y/N)
(Date: 7-29-91)

SPACING:

☒ R649-2-3. Unit: Lower Squaw Point
☐ R649-3-2. 40 acre spacing.
☐ R649-3-3. Exception.
☐ Board Order.
Cause number: _____
Date: _____

COMMENTS: No other producing well within Sec. 17.
Obtigation well for Lower Squaw Point Unit.

STIPULATIONS: _____

CONFIDENTIAL
PERIOD
EXPIRED
ON 12-19-93

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
As soon as approved
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. Ampolex (Texas), Inc. proposes to drill the Lower Squaw Point #1 well (wildcat) on federal lease U-57609, San Juan County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SW/4 SW/4, Section 17, Township 37 South, Range 26 East, San Juan County, Utah
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL:
DATE: 7/29/92
Petroleum Engineer

RECEIVED

JUL 17 1992

TEMPORARY

FILING FOR WATER IN THE
STATE OF UTAH

RECEIVED

JUL 14 1992

Rec. by JOFee Rec. 75.00Receipt # 717927WATER RIGHTS
SALT LAKE

APPLICATION TO APPROPRIATE WATER

WATER RIGHTS

Microfilmed

Roll #

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

*WATER RIGHT NO. 09 - 1802*APPLICATION NO. A T663401. *PRIORITY OF RIGHT: July 14, 1992*FILING DATE: July 14, 1992

2. OWNER INFORMATION

Name(s): Ampolex (Texas) Inc. c/o Billy Hass

*Interest: _____ %

Address: P.O. Box 1443City: MoabState: UtahZip Code: 84532Is the land owned by the applicant? Yes _____ No X (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER:

cfs and/or 3.0

ac-ft.

4. SOURCE: 1) Unnamed Wash 2) Mares Trail Canyon *DRAINAGE:

which is tributary to _____

which is tributary to _____

POINT(S) OF DIVERSION:

COUNTY: San Juan1) S. 1600 ft. & E. 200 ft. from NW Cor.;2) S. 1700 ft. & W. 400 ft. from NE Cor.; both Sec. 27, T36S, R26E, SLB&M.Description of Diverting Works: Portable pump to tank truck*COMMON DESCRIPTION: 13 miles SE of Eastland Burnt Cabin Creek Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from _____

RECEIVED

at a point:

JUL 27 1992

Description of Diverting Works: _____

DIVISION OF
OIL GAS & MINING

6. POINT(S) OF RETURN

The amount of water consumed will be _____ cfs or 3.0 ac-ft.

The amount of water returned will be _____ cfs or _____ ac-ft.

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: Two Unnamed Ponds Storage Period: from Jan. 1 to Dec. 31Capacity: 2.0 ac-ft. Inundated Area: 0.50 acres.Height of dam: 6 feet

Legal description of inundated area by 40 acre tract(s): _____

Pond #1: SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 27;Pond #2: SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27; both T36S, R26E, SLB&M.

* These items are to be completed by the Division of Water Rights

TEMPORARY

Appropriate

8. List any other water rights which will supplement this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other:	From <u>July 27, 1992</u>	to <u>July 26, 1993</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons.
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine.
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Oil & gas exploration drilling, dust control, road construction and maintenance.

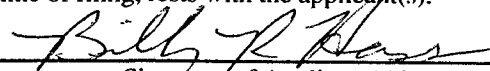
11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): _____
Lower Squaw Point #1:
N. 624 ft. & E. 684 ft. from SW Cor. Sec. 17, T37S, R26E, SLB&M (SW $\frac{1}{4}$ SW $\frac{1}{4}$).

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary):
Exploration hole to be drilled by Ampolex (Texas) Inc. Water to be hauled by Aable
Trucking to place of use. Right-of-way granted to Alfred Phelps to access ponds.
The two ponds identified by paragraph #7 are existing structures constructed
by the landowner.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).


Signature of Applicant(s)*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

Authorized Agent (please print)

Authorized Agent (signature)

STATE ENGINEER'S ENDORSEMENT

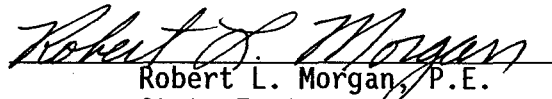
WATER RIGHT NUMBER: 09 - 1802

APPLICATION NO. T66340

1. July 14, 1992 Application received by MP.
 2. July 15, 1992 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated July 23, 1992, subject to prior rights and this application will expire on July 23, 1993.


Robert L. Morgan, P.E.
State Engineer



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Southeastern Region
455 West Railroad Avenue
Price, Utah 84501-2829
801-637-3310

August 3, 1992

Mr. Ed Scherick
Bureau of Land Management
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

Dear Ed:

We appreciate your response to our request for information on a number of APDs within your Resource Area. We have reviewed the proposed actions for the Quantum #1 well (EA# 069-92-044), the Scorpion #1 well (EA# 069-92-045), and the Cactus Park #1 well (EA# 069-92-046). We have the following comments regarding these proposed wells.

We have commented in two previous letters (July 23, 1992 and July 29, 1992) on impacts to wildlife associated with energy exploration activities in the Montezuma Creek drainage. These three wells will have similar impacts as those we outlined in the above mentioned letters. We recommend that the guidelines and measures that we outlined in the earlier responses be applied to the three newly proposed well sites.

Once again, we emphasize the need for measures which mitigate the cumulative impacts of the intensive activity that is currently taking place in this area of critical wildlife habitat. Preservation of the unique wildlife values found in the Montezuma Creek vicinity will enhance the worth of these public lands.

We appreciate the cooperation and information received concerning proposed actions in your Resource Area. If you have any questions regarding our comments on these or any other actions, please contact Ken Phippen, Regional Habitat Manager.

Sincerely,

Miles Moretti
Regional Supervisor

SR/lcl

Copy: Ralph Miles, DWR
Roger Zortman, BLM

Don FMI

11. UT920803-020

Ampo/ex

Division of Oil, Gas & Mining/San Juan County: Application for Permit to Drill - Proposal to drill a wildcat well, the Scorpion No. 1 well, on federal lease U-68673 (Sec. 34, T36S, R24E). Comments due 8-18-92.

12. UT920803-030

Ampo/ex

Division of Oil, Gas & Mining/San Juan County: Application for Permit to Drill - Proposal to drill a wildcat well, the Cactus Park No. 1 well, on federal lease U-68672 (Sec. 24, T36S, R24E). Comments due 8-18-92.

13. UT920803-070

Ampo/ex

Division of Oil, Gas & Mining/San Juan County: Application for Permit to Drill - Proposal to drill a wildcat well, Lower Squaw Point No. 1 well, on federal lease U-57609 (Sec. 17, T37S, R26E). Comments due 8-18-92. 43-037-31687

IV. STREAM ALTERATIONS

***Please Note! Due to the short turnaround please comment directly to the Agency with a copy to OPB.**

14. UT920727-060

Copy cover letter for hydro FMI.

Division of Water Rights/Emery County: Huntington Creek (No. 92-93-06SA) - Permit application to alter a natural stream channel (Sec. 15, T17S, R8E). Comments due 8-17-92.

15. UT920727-050

Division of Water Rights/Kane County: Stout Creek (No. 92-81-04SA) - Permit application to alter a natural stream channel. (Sec. 36, T39S, R7W). Comments due 8-17-92.

16. UT920727-040

Division of Water Rights/Emery County: Huntington Creek (No. 92-93-07SA) - Permit application to alter a natural stream channel (Sec. 9, T17S, R8E). Comments due 8-17-92.

OVER



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Timothy H. Provan
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801-538-4700
801-538-4441 (Fax)

RECEIVED

SEP 11 1992

DIVISION OF
OIL GAS & MINING

August 12, 1992

Dr. Dianne Nielson
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Amplify
Sec 17, T37S, R90E
San Juan
43-013-31487

Dear Dianne:

We are writing in response to four applications for permits to drill (APDs) in the Montezuma Creek area of San Juan County. These wells include the Quantum No. 1 well (U-62681), the Scorpion No. 1 well (U-68673), the Cactus Park No. 1 well (U-68672), and the Lower Squaw Point No. 1 well (U-57609). We have the following comments regarding these applications.

As part of the NEPA process initiated by the Bureau of Land Management (BLM), the Division of Wildlife Resources has reviewed these proposed wildcat wells for potential impacts on wildlife populations and habitat. Enclosed are three letters to the BLM which outline the potential impacts of oil and gas exploratory activities in this area, as well as recommended measures to help mitigate these impacts. We are particularly concerned with the significant increase of exploratory activity in the Montezuma Creek drainage and the accompanying cumulative impacts. The Montezuma Creek area provides critical habitat for a number of species, including several threatened and endangered species. Should these APD's be approved, we strongly recommend the survey and monitoring measures outlined in the enclosed letters be included as stipulations (due to the lack of information on the status and distribution of these species).

We appreciate the opportunity to provide input on these proposed actions. If you have any questions regarding our comments, please contact Ken Phippen, Regional Habitat Manager (637-3310).

Sincerely,


Timothy H. Provan
Director

Acting Director

Enclosures

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENT

WILLIAM D. HOWELL
Executive Director

P. O. Drawer
1106

• Price, Utah 84501 • Telephone 637-5444

AREAWIDE CLEARINGHOUSE A-95 REVIEW

14 01 07

NOI___ Preapp___ App___ State Plan___ State Action X Subdivision___ (ASP # 8-83-5,6,7,8)

Other (indicate) _____ SAI Number UT920803-010,020,030
070

Applicant (Address, Phone Number):

Oil, Gas and Mining
355 West North Temple
3 Triad Center Ste 350
Salt Lake City, UT 84180-1203

Federal Funds:

Requested: _____

Title:

APPLICATION FOR PERMIT TO DRILL

RECEIVED

SEP 02 1992

DIVISION OF
OIL GAS & MINING

- ☒ No comment
☐ See comments below
☐ No action taken because of insufficient information
☐ Please send your formal application to us for review. Your attendance is requested ☐

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

Marilee Van Wagoner
Authorizing Official

8-31-92

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL U-57609	
1B. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE N. N/A	
2. NAME OF OPERATOR Ampolex (Texas), Inc.				7. UNIT AGREEMENT NAME Lower Squaw Point	
3. ADDRESS OF OPERATOR 1225 17th Street, Suite 3000 Denver, Colorado 80202				8. FARM OR LEASE NAME Lower Squaw Point	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 624' FSL 684' FWL At proposed prod. zone Same				9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* See Topo Map "A"				10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 624'		16. NO. OF ACRES IN LEASE 1360		17. NO. OF ACRES ASSIGNED TO THIS WELL 320	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		19. PROPOSED DEPTH 6150'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6091' GR.				22. APPROX. DATE WORK WILL START A.S.A.P.	
23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
12 1/4"	9 5/8"	36 K-55	1870'	To Surface	
8 3/4"	5 1/2"	17 K-55	T.D.	T.O.C. above all pay zones	

Be advised that Ampolex (Texas), Inc. is considered to be the operator of the proposed well and is responsible under the terms and conditions of the Lease for all operations conducted on leased lands.

Bond coverage for this well is provided by
Nationwide Surety #69HF3973.

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
Dated 1/1/80

RECEIVED

SEP 10 1992

DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new product zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blow prevention program, if any.

SIGNED Robert C. Arceneaux TITLE Senior Petroleum Engineer DATE 07/23/92

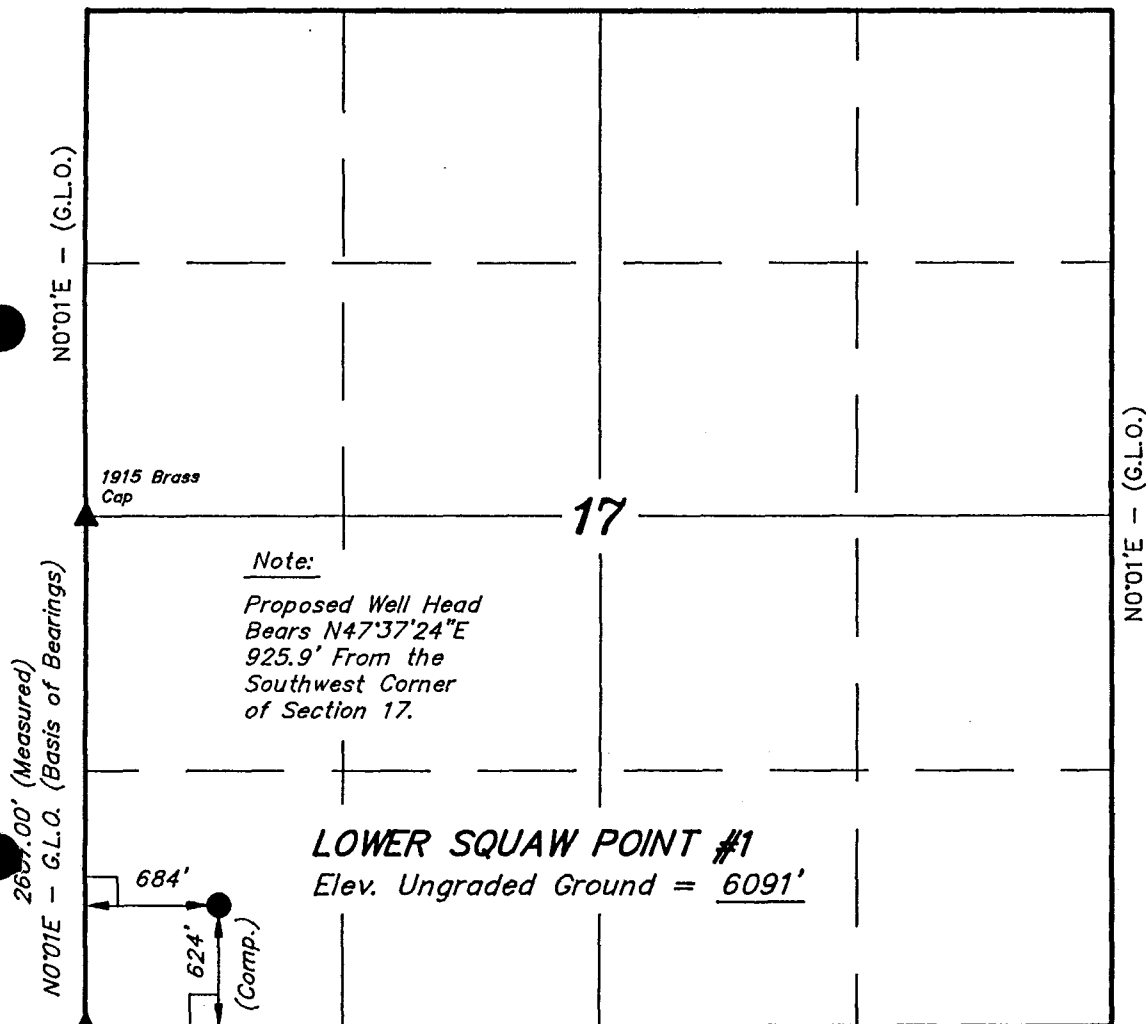
(This space for Federal or State office use)

PERMIT NO. /S/ WILLIAM C. STRINGER Assistant District Manager
APPROVED BY for Minerals TITLE SEP 4 1992
CONDITIONS OF APPROVAL, IF ANY: SEP 4 1992

CONDITIONS OF APPROVAL ATTACHED

T37S, R26E, S.L.B.&M.

N89°57'E - 80.18 (G.L.O.)



Note:

Proposed Well Head
Bears N47°37'24"E
925.9' From the
Southwest Corner
of Section 17.

LOWER SQUAW POINT #1
Elev. Ungraded Ground = 6091'

1915 Brass
Cap

EAST - 80.12 (G.L.O.)

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

**PROPOSED WELL HEAD
STATE PLANE COORDINATES:**

X = 2,697,695

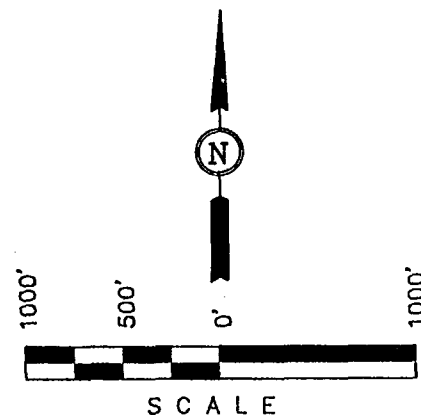
Y = 335,979

AMPOLEX (TEXAS) INC.

Well location, LOWER SQUAW POINT #1, located as shown in the SW 1/4 SW 1/4 of Section 17, T37S, R26E, S.L.B.&M. San Juan County, .. Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 17, T37S, R26E, S.L.B.&M. TAKEN FROM THE PAPOOSE CANYON QUADRANGLE, UTAH - COLORADO, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6070 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 7-9-92 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 6-1-92	DATE DRAWN: 6-18-92
PARTY G.S. R.A. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE AMPOLEX (TEXAS) INC.	

Ampolex (Texas), Inc.
Well No. Lower Squaw Point 1
SWSW Sec. 17, T.37S., R.26E.
San Juan County, Utah
Lease U-57609
Lower Squaw Point Unit

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Ampolex (Texas), Inc. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by CO 0701 (Principal - Ampolex (Texas), Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. Daily drilling and completion progress reports shall be submitted to the District office on a weekly basis.
2. The 3000 psi (3M) BOP system will be consistent with API RP 53 and Onshore Oil and Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Annular preventers shall be inspected and operated weekly to ensure good mechanical working order. These inspections shall be recorded on the daily drilling report.
3. Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.
4. Cement volumes were not included in the APD. The volume of cement to be used in setting the production casing shall be submitted to the BLM prior to running pipe. We must verify that the volume of cement is adequate to isolate all fluid bearing zones penetrated.

B. SURFACE USE PLAN

1. The access and location will be rehabilitated as per the conditions of approval in the APD.
2. If construction is delayed until February 1, 1993, the wildlife biologist will be notified and a survey would be done to ensure raptor safety during the critical nesting season. All raptor nests will be avoided by one-half mile from construction activities.

C. REQUIRED NOTIFICATIONS AND APPROVALS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the Resource Area, Natural Resource Protection Specialist at least 24 hours prior to commencing construction of location.

Spud- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District office within twenty-four (24) hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

First Production- A first production conference will be scheduled as soon as production testing begins and hydrocarbons reach the surface. This conference should be coordinated through the Resource Area Office.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Assistant District Manager for off-lease measurement, off-lease storage of commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

NOTIFICATIONS

Notify Jeff Brown or Robert Larsen of the San Juan Resource Area, at (801) 587-2141 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

50 feet prior to reaching surface casing setting depth;

3 hours prior to testing BOPE;

If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. If unsuccessful, notify one of the people listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Dale Manchester, Petroleum Engineer	Office: (801) 259-6111
	Home: (801) 259-6239

Eric Jones, Petroleum Engineer	Office: (801) 259-6111
	Home: (801) 259-2214

If unable to reach the above individuals, please call the following:

Lynn Jackson,	Office: (801) 259-6111
Chief, Branch of Fluid Minerals	Home: (801) 259-7990

D R A F T

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
IN AND FOR THE STATE OF UTAH

---oo0oo---

THE REGULAR MONTHLY MEETING OF THE BOARD OF OIL, GAS AND MINING WILL BE ON WEDNESDAY, SEPTEMBER 23, 1992, AT 10:00 A.M., IN THE BOARDROOM OF THE DIVISION OF OIL, GAS AND MINING, 3 TRIAD CENTER, SUITE 520, 355 WEST NORTH TEMPLE, SALT LAKE CITY, UTAH.

THE DIVISION OF OIL, GAS AND MINING WILL CONDUCT A BRIEFING SESSION ON WEDNESDAY, SEPTEMBER 23, 1992, AT 9:00 A.M., IN THE BOARDROOM. THE FOLLOWING ITEMS WILL BE PRESENTED DURING THE BRIEFING SESSION:

1. Request for Board Approval, Amount and Form of Revised Reclamation Surety, Kennecott Corporation, Barney's Canyon Mine Permit Revision, M/035/009, Salt Lake County, Utah.
2. Status Report Regarding Docket No. 92-004, Cause No. 177-4, Mangum's Septic Tank Service, a/k/a Mangum's Trucking Company, Washington County, St. George, Utah.
3. Update on Flaring of Gas from Columbia Gas Development Corporation's Springs Federal #27-1 and #19-1A Oil Wells Located in Grand County, Utah.
4. Discussion of the Changes to Place the Coal Act, Utah Code Ann. 40-10-1 et seq., in Line with the Utah Administrative Procedures Act (UAPA), Utah Code Ann. 63-46b-1 et seq.
5. Other Items as Necessary.
6. Next Month's Agenda.

THE FOLLOWING MATTERS WILL BE HEARD BEGINNING AT 10:00 A.M.:

1. Docket No. 92-024, Cause No. 226-2 -- In the Matter of the Board Order to Show Cause Issued to Rancho Energy Corporation to Properly Plug and Abandon the Wells Located in Miller Creek Field, Sections 22, 26, and 27, Township 15 South, Range 10 East, Carbon County, Utah, or In the Alternative, to Direct the Division of Oil, Gas and Mining to Cause the Existing Bonds For the Wells to be Forfeited in Order to Perform the Required Plugging and Abandonment Operations.

2. Docket No. 92-025, Cause No. 226-3 -- In the Matter of the Board Order to Show Cause Issued to Fuel Exploration, Inc., to Properly Plug and Abandon the Brotherson No. 1-34B4 Well Located in Section 34, Township 2 South, Range 4 West, U.S.M., Duchesne County, Utah, or, In the Alternative, to Direct the Division of Oil, Gas and Mining to Cause the Existing Bonds to be Forfeited in Order to Perform the Required Plugging and Abandonment Operations. (CONTINUED FROM AUGUST 26, 1992 HEARING)
3. Docket No. 92-038, Cause No. ORA-017-92 -- In the Matter of the Board Order to Show Cause Issued to Intermountain Oil Company, Bountiful, Davis County, Utah, Regarding the Emergency Cessation Order of All Operations and Actions Pertaining to the Collection, Storage, Reclaiming, and Sale of Used Oil. (CONTINUED FROM AUGUST 26, 1992 HEARING)
4. Docket No. 92-039, Cause No. K-111-33 -- In the Matter of the Application of Enron Oil and Gas Company for a Well Determination for the Natural Buttes #318-36E Well, Section 36, Township 9 South, Range 22 East, Uintah County, Utah, Pursuant to Section 103 and Section 107 of the Natural Gas Policy Act of 1978.
5. Docket No. 92-040, Cause No. K-136-54 -- In the Matter of the Application of Coastal Oil and Gas Corporation for a Well Determination for the CIGE #144-2-10-22 Well, Section 2, Township 10 South, Range 22 East, Uintah County, Utah, Pursuant to Section 103 and Section 107 of the Natural Gas Policy Act of 1978.



Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

September 11, 1992

Ampolex (Texas), Inc.
1225 17th Street, Suite 3000
Denver, Colorado 80202

Gentlemen:

Re: Lower Squaw Point 1 Well, 624 feet from the south line, 684 feet from the west line, SW 1/4 SW 1/4, Section 17, Township 37 South, Range 26 East, San Juan County, Utah

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2
Ampolex (Texas), Inc.
Lower Squaw Point 1 Well
September 11, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31687.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WOH



AMPOL EXPLORATION (U.S.A.) INC.

SEVENTEENTH STREET PLAZA, SUITE 3000
1225 17TH STREET
DENVER, CO 80202 U.S.A.

Phone: (303) 297-1000

Telecopy: (303) 297-2050

Subsidiaries:

Ampolex (California), Inc.
Ampolex (Orient), Inc.
Ampolex (Texas), Inc.
Ampolex (Wyoming), Inc.

October 5, 1992

State of Utah
Division of Oil and Gas
355 W. North Temple
Salt Lake City, Utah 84180

RECEIVED

OCT 08 1992

DIVISION OF
OIL GAS & MINING

Re: Ampolex Lower Squaw Point #1
Section 17, T37S, R26E
San Juan County, Utah

43-027-21687

Dear Sir:

Ampolex requests that all data, material, and information related to this well be kept confidential beginning on the date of receipt of this is request. It is our understanding that this period is one year from the date of completion of the well. Ampolex and its contractors will label all material as "CONFIDENTIAL" or "TIGHT HOLE".

Thank you for your attention in this matter.

Sincerely,

RAR
Exploration Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Ampolex (Texas), Inc.

3. Address and Telephone No.

1225 17th Street, Suite #3000, Denver, CO 80202 (303) 297-1000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

624' FSL & 684' FWL SW SW

Section 17-T37S-R26E

5. Lease Designation and Serial No.

U-57609

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Lower Squaw Point

8. Well Name and No.

Lower Squaw Point No. 1

9. API Well No.

43-037-31687

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-5/8", 36# casing is J-55 instead of K-55./

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10/15/92

BY: J. Matthews

RECEIVED

OCT 15 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Robert C. Freeman Title Senior Petroleum Engineer Date 10/13/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: AMPOLEX 43-037-31687

WELL NAME: LOWER SQUAW POINT # 1

Section 17 Township 37S Range 26E County SAN JUAN

Drilling Contractor ARAPHOE

Rig # 4

SPUDDED: Date 11/3/92

Time

How ROTARY

CONFIDENTIAL

Drilling will commence

Reported by GLENN GOODWIN-DOGM

Telephone #

Date 11/6/92 SIGNED JLT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Ampolex (Texas), Inc.

3. Address and Telephone No.
1225 17th Street, Suite #3000, Denver, CO 80202 (303) 297-1000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**624' FSL & 684' FWL
SW SW Section 17-T37S-R26E**

5. Lease Designation and Serial No.
U-57609

6. If Indian, Allottee or Tribe Name
--

7. If Unit or CA, Agreement Designation
--

8. Well Name and No.
Lower Squaw Point #1

9. API Well No.
43-037-31687

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

13-3/8" conductor pipe will not be set as provided in the A.P.D. While drilling surface hole, fluid returns will be pumped out of the cellar and back into the rig mud tanks.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 11-9-92
BY: [Signature]

RECEIVED

NOV 06 1992

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Rubert C. Greenleaf Title Senior Petroleum Engineer Date 11/2/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

November 18, 1992

Carolyn Small
Ampolex (Texas) Inc.
1225 17th Street, Suite 3000
Denver, Colorado 80202

Dear Ms. Small:

Re: Request for Completed Entity Action Form - Lower Squaw Pt 1
SWSW Sec. 17, T. 37S, R. 26E - San Juan County, Utah

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Lower Squaw Pt 1, API Number 43-037-31687, on November 3, 1992. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by November 27, 1992.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Romero at the above number.

Sincerely,

Don Staley
Administrative Supervisor

Enclosure

cc: R. J. Firth
File

NOV 23 1992

DIVISION OF
OIL GAS & MINING

RESERVOIR

INTERPRETATION

SERVICES

CORPORATION

Prepared for :

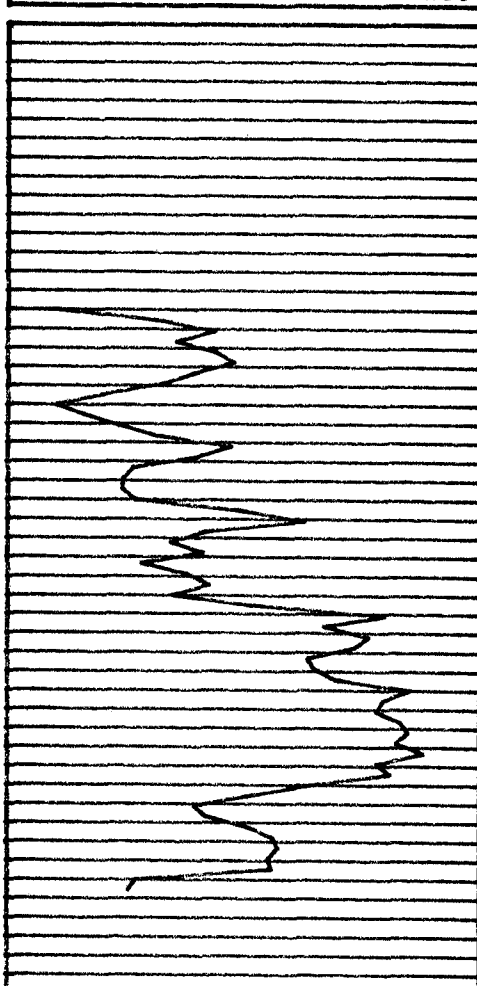
**Ampolex (USA), Inc.
Lower Squaw Point No. 1
Sec. 17 T37S R26E
San Juan County, Utah**

CORE GAMMA RAY LOG

Reservoir Interpretation Services Corp.

Company: Ampolex (USA), Inc. Date: 11-19-1992
Field Name: Wildcat Core Number: #1
Well Number: L.Squaw Point #1 Core Interval:
Log Type: Total Gamma 6090- 6150
Depth Scale: 1 inch=20 Feet Data File Name: 211AMP05

Total Gamma API





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NOV 23 1992

DIVISION OF
OIL, GAS & MINING

RESERVOIR

INTERPRETATION

SERVICES

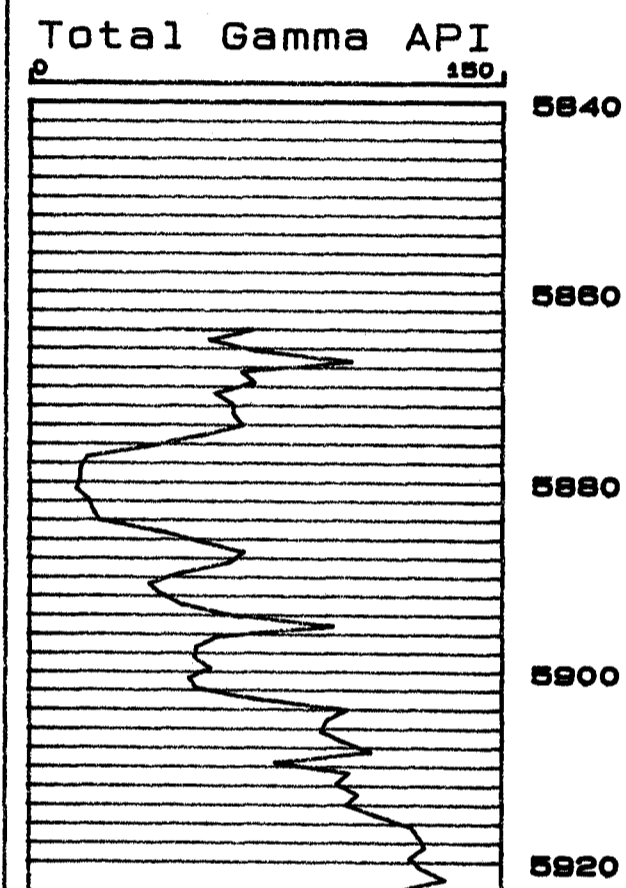
CORPORATION

Prepared for :

**Ampolex (USA), Inc.
Scorpion No. 1
Sec. 34 T36S R24E
San Juan County, Utah**

CORE GAMMA RAY LOG
Reservoir Interpretation Services Corp.

Company: Ampolex (USA), Inc.	Date: 11-19-1992
Field Name: Wildcat	Core Number: #1
Well Number: Scorpion #1	Core Interval:
Log Type: Total Gamma	5864- 5923
Depth Scale: 1 inch=20 Feet Data File Name: 211AMP04	





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NOV 23 1992

DIVISION OF
OIL, GAS & MINING

RESERVOIR

INTERPRETATION

SERVICES

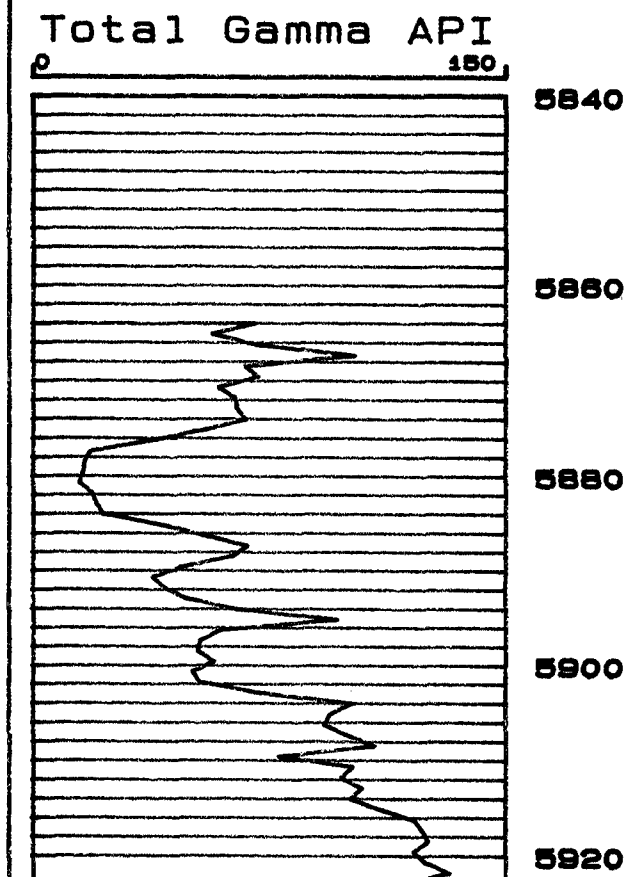
CORPORATION

Prepared for :

**Ampolex (USA), Inc.
Scorpion No. 1
Sec. 34 T36S R24E
San Juan County, Utah**

CORE GAMMA RAY LOG
Reservoir Interpretation Services Corp.

Company: Ampolex (USA), Inc.	Date: 11-19-1992
Field Name: Wildcat	Core Number: #1
Well Number: Scorpion #1	Core Interval:
Log Type: Total Gamma	5864- 5923
Depth Scale: 1 inch=20 Feet Data File Name: 211AMP04	





RECEIVED

NOV 23 1992

DIVISION OF
OIL GAS & MINING

RESERVOIR

INTERPRETATION

SERVICES

CORPORATION

CONFIDENTIAL

Prepared for :

**Ampolex (USA), Inc.
Lower Squaw Point No. 1
Sec. 17 T37S R26E
San Juan County, Utah**

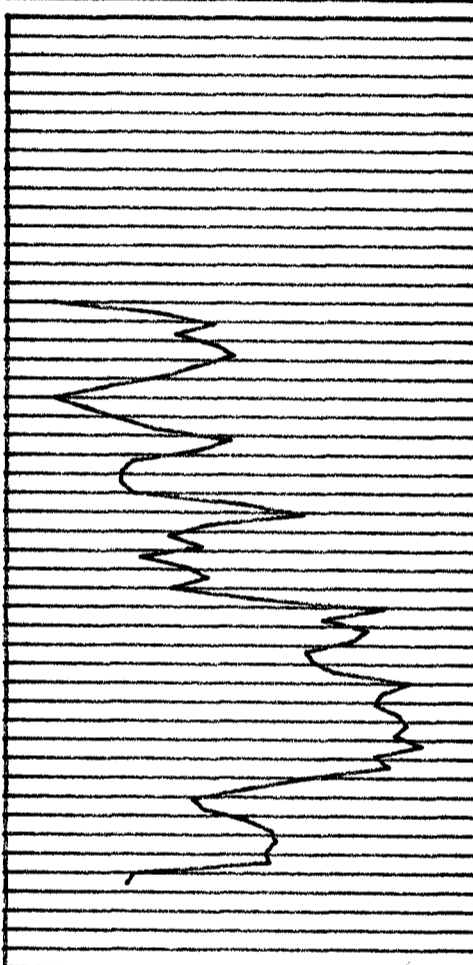
43-037-31687

CORE GAMMA RAY LOG
Reservoir Interpretation Services Corp.

Company: Ampolex (USA), Inc.	Date: 11-19-1992
Field Name: Wildcat	Core Number: #1
Well Number: L.Squaw Point #1	Core Interval:
Log Type: Total Gamma	6090- 6150
Depth Scale: 1 inch=20 Feet Data File Name: 211AMP05	

Total Gamma API

0 150



6080

6080

6100

6120

6140

6160

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED*
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Ampolex (Texas), Inc.

3. Address and Telephone No.

1225 17th Street, Suite #3000, Denver, CO 80202 (303) 297-1000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW SW Section 17-T37S-R26E

684' FWL & 624' FSL

5. Lease Designation and Serial No.

U-57609

6. If Indian, Allottee or Tribe Name

--

7. If Unit or CA, Agreement Designation

Lower Squaw Point

8. Well Name and No.

Lower Squaw Point #1

9. API Well No.

43-037-31687

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Examination of the core from the Desert Creek Formation indicated that the well was not capable of commercial production. Will set cement plugs as follows:

60 SX 6,167' - 5,967'
100 SX 4,708' - 4,508'
85 SX 1,997' - 1,797'
20 SX 50' - Surface

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 12-2-92
BY J. Matthews

RECEIVED

NOV 30 1992

**DIVISION OF
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed Robert C. Greenleaf Title Senior Petroleum Engineer

Date 11/24/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

RECEIVED

S T R I C K C O

NOV 30 1992

GAS CHROMATOGRAPH ANALYSIS

DIVISION OF
OIL GAS & MINING3011 Bloomfield Hwy.
Farmington, NM 87401

[505] 326-6053

COMPANY: Ampolex (Texas), Inc.
WELL NAME: Lower Squaw Point #1
WELL LOCATION: N/A
SAMPLED BY: N/A
DATE SAMPLED: 11/15/92
DATE ANALYSED: 11/16/92FORMATION: Hermosa
COUNTY: San Juan
STATE: Utah
FIELD: N/A
BOMB PRESSURE: 85# psig
FILE NUMBER: GA/1162/92

FOREMAN: Paul Matheny

GAS	MOLE %	B.T.U.	SP. GR.	G.P.M.
NITROGEN	2.770666	0.000	0.027	0.000
METHANE	79.223427	800.157	0.439	0.000
CO2	0.000000	0.000	0.000	0.000
ETHANE	10.709958	189.523	0.111	2.858
H2S	0.000000	0.000	0.000	0.000
PROPANE	4.363732	109.796	0.066	1.200
ISO-BUTANE	0.691196	22.477	0.014	0.226
BUTANE	1.129925	36.862	0.023	0.355
ISO-PENTANE	0.392471	15.702	0.010	0.143
PENTANE	0.312056	12.510	0.008	0.113
HEXANES	0.234284	11.142	0.007	0.096
HEPTANES	0.148202	8.155	0.005	0.068
OCTANES	0.024084	1.505	0.001	0.012
TOTALS	100.0000	1211.822	0.712	5.071

Pressure Base: 14.696 - Dry.

Analyzed by: WDS

Checked by: AFL

NOTE: Gas from D.S.T.

Note: B.T.U., G.P.M., SP.Gr. are computer generated values
calculated from ideal gas constants of GPA Publication 2145-90,
effective January 1, 1991.

::

S T R I C K C O

GAS CHROMATOGRAPH ANALYSIS

3011 Bloomfield Hwy.
Farmington, NM 87401

[505] 326-6053

COMPANY: Ampolex (Texas), Inc.
WELL NAME: Lower Squaw Point #1
WELL LOCATION: N/A
SAMPLED BY: N/A
DATE SAMPLED: 11/15/92
DATE ANALYSED: 11/16/92

FORMATION: Hermosa
COUNTY: San Juan
STATE: Utah
FIELD: N/A
BOMB PRESSURE: 85# psig
FILE NUMBER: GA/1162/92

FOREMAN: Paul Matheny

GAS	MOLE %	B.T.U.	SP. GR.	G.P.M.
NITROGEN	2.770666	0.000	0.027	0.000
METHANE	79.223427	800.157	0.439	0.000
CO2	0.000000	0.000	0.000	0.000
ETHANE	10.709958	189.523	0.111	2.858
H2S	0.000000	0.000	0.000	0.000
PROPANE	4.363732	109.796	0.066	1.200
ISO-BUTANE	0.691196	22.477	0.014	0.226
BUTANE	1.129925	36.862	0.023	0.355
ISO-PENTANE	0.392471	15.702	0.010	0.143
PENTANE	0.312056	12.510	0.008	0.113
HEXANES	0.234284	11.142	0.007	0.096
HEPTANES	0.148202	8.155	0.005	0.068
OCTANES	0.024084	1.505	0.001	0.012
TOTALS	100.0000	1211.822	0.712	5.071

Pressure Base: 14.696 - Dry.

Analyzed by: WDS

Checked by: AFL

NOTE: Gas from D.S.T.

Note: B.T.U., G.P.M., SP.Gr. are computer generated values
calculated from ideal gas constants of GPA Publication 2145-90,
effective January 1, 1991.

::



RECEIVED

NOV 30 1992

Subsidiaries:

Ampalex (California), Inc.
Ampalex (Orient), Inc.
Ampalex (Texas), Inc.
Ampalex (Wyoming), Inc.

**DIVISION OF
OIL GAS & MINING**

Phone: (303) 297-1000

Telecopy: (303) 297-2050

LETTER OF TRANSMITTAL

NO.: 650

STATE OF UTAH
TO: DIVISION OF OIL & GAS
355 W. NORTH Temple
SALT LAKE CITY, UT 84180

Date: 11/25/92

Attn: _____
From: PAUL MATHENY
(PRINT NAME)

Page: _____
File: _____

DISPATCH METHOD	(Tick as appropriate)	PACKING METHOD	(Tick as appropriate)
Air <input type="checkbox"/>	Mail <input checked="" type="checkbox"/>	Envelope/s <input checked="" type="checkbox"/>	Tube/s <input type="checkbox"/>
Courier <input type="checkbox"/>	Surface <input type="checkbox"/>	Parcel/s <input type="checkbox"/>	Other <input type="checkbox"/>
Hand <input type="checkbox"/>	AWB # _____	Box/s <input type="checkbox"/>	

Note: Transmittal form (or copy) should be included in each envelope, box, etc.

WELL NAME: LOWER SQUAW POINT #1 PROSPECT/FIELD: LOWER SQUAW POINT
COUNTY/STATE: SAN JUAN, UT BASIN: PARADOX
SEC 17 T37S, R26E 43-037-31687
OTHER:

QTY.	DESCRIPTION
2	PAPER COPIES - GAS CHROMATOGRAPH ANALYSIS

CONSIGNOR

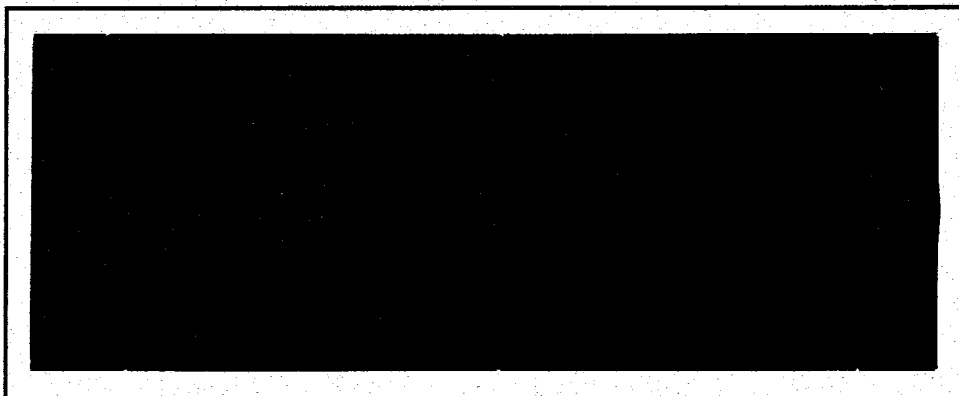
Date: 11/25/92
Signed: H. Rasmussen
Printed Name: _____

CONSIGNEE

Goods Received in Good Order and Condition

Signed: _____

Date: _____



DRILL STEM TEST REPORT

CONFIDENTIAL

**HALLIBURTON
RESERVOIR SERVICES**



A Halliburton Company

NOMENCLATURE

B	= Formation Volume Factor	(Res Vol/Std Vol)
c_t	= System Total Compressibility	(Vol/Vol)/psi
DR	= Damage Ratio	
h	= Estimated Net Pay Thickness	Ft

k	= Permeability	md
m	$\left\{ \begin{array}{l} \text{(Liquid) Slope Extrapolated Pressure Plot} \\ \text{(Gas) Slope Extrapolated } m(P) \text{ Plot} \end{array} \right.$	<p>psi/cycle</p> <p>MM psi²/cp/cycle</p>
$m(P^*)$	= Real Gas Potential at P^*	MM psi ² /cp
$m(P_i)$	= Real Gas Potential at P_i	MM psi ² /cp
AOF_1	= Maximum Indicated Absolute Open Flow at Test Conditions	MCFD
AOF_2	= Minimum Indicated Absolute Open Flow at Test Conditions	MCFD
P^*	= Extrapolated Static Pressure	Psig
P_i	= Final Flow Pressure	Psig
Q	= Liquid Production Rate During Test	BPD
Q_1	= Theoretical Liquid Production w/Damage Removed	BPD
Q_g	= Measured Gas Production Rate	MCFD
r_i	= Approximate Radius of Investigation	Ft
r_w	= Radius of Well Bore	Ft
S	= Skin Factor	
t	= Total Flow Time Previous to Closed-in	Minutes
Δt	= Closed-in Time at Data Point	Minutes
T	= Temperature Rankine	°R
ϕ	= Porosity (fraction)	
μ	= Viscosity of Gas or Liquid	cp
Log	= Common Log	

<p>AMPOLEX (TEXAS), INC. <i>43-037-31687</i> LEASE : LOWER SQUAW POINT WELL NO. : 1 TEST NO. : 1</p>	
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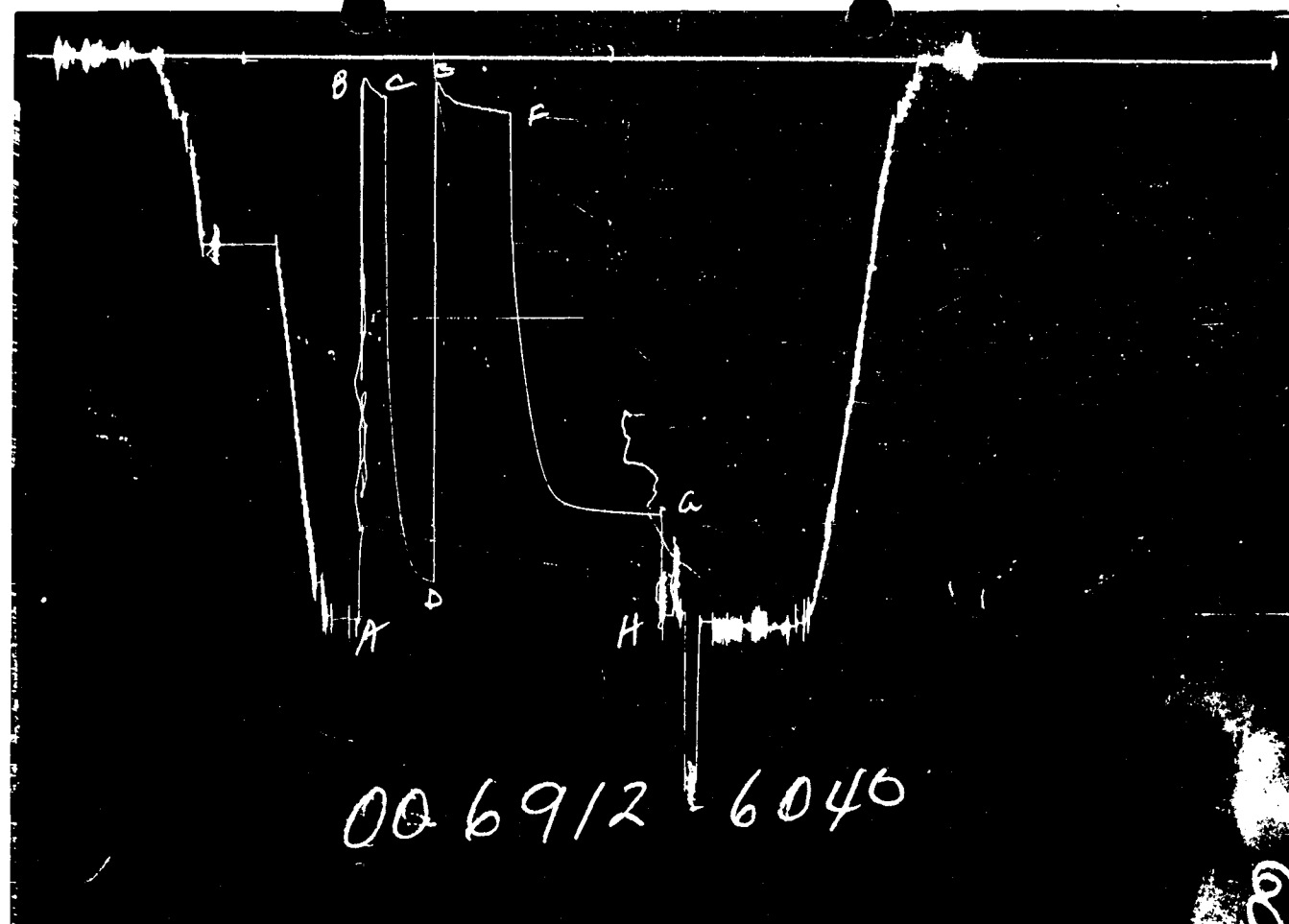
TICKET NO. 00691200
 08-DEC-92
 FARMINGTON

RECEIVED

DEC 10 1992

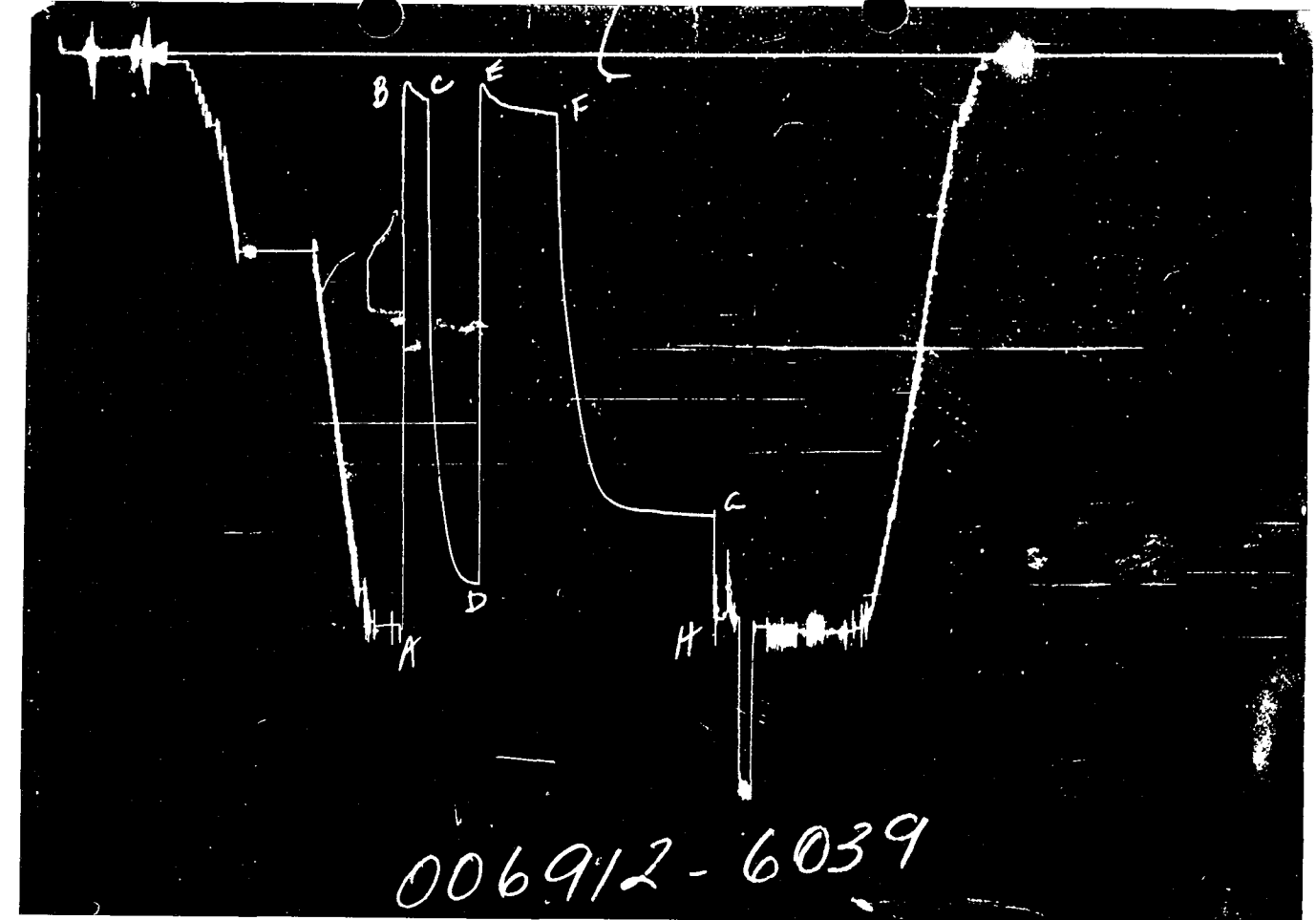
DIVISION OF
 OIL GAS & MINING

LEGAL LOCATION SEC - TWP - RANG.	17 - 35 S - 26 E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH	SM
LEASE NAME		WELL NO.	1	TEST NO.	1	5628.0 - 5682.0		AMPOLEX (TEXAS), INC.
		TESTED INTERVAL		LEASE OWNER/COMPANY NAME				



GAUGE NO: 6040 DEPTH: 5607.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2970	2998.0			
B	INITIAL FIRST FLOW	81	159.9			
C	FINAL FIRST FLOW	188	218.0	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	188	218.0			
D	FINAL FIRST CLOSED-IN	2781	2798.2	60.0	59.5	C
E	INITIAL SECOND FLOW	135	144.0			
F	FINAL SECOND FLOW	322	298.2	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	322	298.2			
G	FINAL SECOND CLOSED-IN	2416	2433.6	180.0	183.4	C
H	FINAL HYDROSTATIC	2970	2969.5			



GAUGE NO: 6039 DEPTH: 5679.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3025	3050.0			
B	INITIAL FIRST FLOW	120	215.5			
C	FINAL FIRST FLOW	241	244.7	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	241	244.7			
D	FINAL FIRST CLOSED-IN	2828	2830.8	60.0	59.5	C
E	INITIAL SECOND FLOW	147	165.4			
F	FINAL SECOND FLOW	308	321.6	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	308	321.6			
G	FINAL SECOND CLOSED-IN	2504	2466.0	180.0	183.4	C
H	FINAL HYDROSTATIC	3025	3018.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HERMOSA
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 54.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 6103.0
 TOTAL DEPTH (ft): 5682.0
 PACKER DEPTH(S) (ft): 5622, 5628
 FINAL SURFACE CHOKE (in): 0.25000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.00
 MUD VISCOSITY (sec): 48
 ESTIMATED HOLE TEMP. (°F): 123
 ACTUAL HOLE TEMP. (°F): 123 @ 5677.0 ft

FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	2.700 @ 60 °F	2300 ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 42.0 @ 60 °F
 GAS/OIL RATIO (cu.ft. per bbl): 991
 GAS GRAVITY: _____

TICKET NUMBER: 00691200

DATE: 11-14-92 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:
FARMINGTON

TESTER: KEN TROUTH

WITNESS: KEN WEST

DRILLING CONTRACTOR:
ARAPAHOE #11

SAMPLER DATA

Psig AT SURFACE: 270.0

cu.ft. OF GAS: 1.870

cc OF OIL: 300.0

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: 300.0

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED:

3 BBLs. OF OIL (REVERSED OUT TO TANK)
 45 BBLs. OF HIGHLY GAS AND OIL CUT DRILLING MUD

MEASURED FROM
TESTER VALVE

REMARKS:

- 1) GAS TO THE SURFACE IN 15 MINUTES GOING TO SEPARATOR....SEPARATOR 130' FROM FLOOR MANIFOLD - 2" LINE.
- 2) CHARTS INDICATE A MECHANICALLY SUCCESSFUL TEST.
- 3) CHARTS INDICATE MEDIUM PRODUCTIVITY WITH POSSIBLE FORMATION DAMAGE. LOSS OF APPROXIMATELY 350 PSI FROM FIRST CLOSED IN TO SECOND CLOSED IN PERIOD COULD INDICATE DEPLETION. THE LOSS IN PRESSURE COULD ALSO INDICATE SUPERCHARGE EFFECTS, HOWEVER A 30 MINUTE FIRST FLOW IS NORMALLY LONG ENOUGH TO REMOVE ANY SUPERCHARGE.

TYPE & SIZE MEASURING DEVICE: SEPARATOR					TICKET NO: 00691200
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-13-92					
2230					DN LOCATION
11-14-92					
0030					LOADED GAUGES
0100					PICKED UP TOOLS; SLOWLY RAN IN HOLE
0545					MADE UP CONTROL HEAD
0610					SET WEIGHT ON PACKER
0615	BH				OPENED TOOL WITH STRONG BLOW
0619		4			STRONG BLOW
0625	.25	25			STRONG BLOW
0630		38			GAS TO THE SURFACE
		FCP	MCFD		
0635		50*	130.7		TURNED THROUGH SEPARATOR
					*AS PER SEPARATOR WITH 1 1/4"
					PLATE
0640					FLARED GAS
0645					CLOSED TOOL
0745					OPENED TOOL WITH STRONG BLOW
0748					FLOWING THROUGH SEPARATOR
					(NOTE: PRESSURES AND RATES
					AS PER SEPARATOR WITH 1 1/4"
					PLATE)
		FCP	MCFD		
0800		90	158.3		
0815		91	149.3		
0830		87	136.8		
0845		84	126.9		
0900		83	118.8		
0915		82	116.0		CLOSED TOOL
1215					PULLED TOOL LOOSE
1220					PULLED 60 FEET, RIGGED TO
					REVERSE OUT
1230					REVERSED OUT
1330					CIRCULATED
1500					TRIPPED OUT OF HOLE
1800					BROKE DOWN TOOLS
1930					JOB COMPLETED

TICKET NO: 00691200

GAUGE NO : 6040

CLOCK NO: 13840 HOUR: 24

DEPTH: 5607.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	159.9		
	2	3.0	120.2	-39.7	
	3	6.0	126.9	6.7	
	4	9.0	153.4	26.5	
	5	12.0	169.7	16.3	
	6	15.0	181.4	11.6	
	7	18.0	191.0	9.6	
	8	21.0	201.6	10.6	
	9	24.0	211.3	9.8	
C	10	28.5	218.0	6.7	
FIRST CLOSED-IN					
C	1	0.0	218.0		
	2	1.0	1017.6	799.6	0.9 1.487
	3	2.0	1324.3	1106.3	1.9 1.181
	4	3.0	1513.7	1295.7	2.7 1.021
	5	4.0	1636.8	1418.7	3.5 0.911
	6	5.0	1727.4	1509.4	4.2 0.828
	7	6.0	1804.8	1586.8	5.0 0.758
	8	7.0	1864.3	1646.3	5.6 0.707
	9	8.0	1925.9	1707.9	6.2 0.661
	10	9.0	1988.8	1770.8	6.9 0.619
	11	10.0	2045.1	1827.0	7.4 0.587
	12	12.0	2145.9	1927.9	8.5 0.528
	13	14.0	2230.1	2012.1	9.4 0.482
	14	16.0	2314.0	2096.0	10.3 0.444
	15	18.0	2383.4	2165.4	11.0 0.412
	16	20.0	2449.7	2231.6	11.8 0.385
	17	22.0	2505.9	2287.8	12.4 0.361
	18	24.0	2557.2	2339.2	13.0 0.341
	19	26.0	2600.2	2382.2	13.6 0.322
	20	28.0	2637.1	2419.1	14.1 0.305
	21	30.0	2671.1	2453.0	14.6 0.291
	22	35.0	2724.7	2506.7	15.7 0.259
	23	40.0	2759.2	2541.2	16.7 0.234
	24	45.0	2775.9	2557.9	17.5 0.213
	25	50.0	2786.8	2568.8	18.2 0.196
	26	55.0	2795.2	2577.2	18.8 0.182
D	27	59.5	2798.2	2580.1	19.3 0.170
SECOND FLOW					
E	1	0.0	144.0		
	2	5.0	153.5	9.5	
	3	10.0	194.2	40.7	
	4	15.0	211.5	17.3	
	5	20.0	231.2	19.7	
	6	25.0	243.7	12.5	
	7	30.0	250.3	6.7	

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	8	35.0	257.8	7.5	
	9	40.0	260.4	2.5	
	10	45.0	265.6	5.2	
	11	50.0	268.2	2.5	
	12	55.0	276.1	7.9	
	13	60.0	277.5	1.5	
	14	65.0	281.4	3.9	
	15	70.0	283.4	2.0	
	16	75.0	290.0	6.6	
	17	80.0	291.3	1.3	
	18	85.0	296.1	4.8	
F	19	88.5	298.2	2.0	
SECOND CLOSED-IN					
F	1	0.0	298.2		
	2	1.0	632.2	334.0	1.0 2.083
	3	2.0	853.7	555.5	2.0 1.779
	4	3.0	1019.2	721.0	2.9 1.604
	5	4.0	1112.7	814.5	3.9 1.482
	6	5.0	1172.3	874.2	4.8 1.385
	7	6.0	1227.0	928.8	5.7 1.314
	8	7.0	1273.4	975.2	6.6 1.248
	9	8.0	1316.2	1018.1	7.5 1.193
	10	9.0	1356.2	1058.0	8.4 1.147
	11	10.0	1399.9	1101.7	9.2 1.105
	12	12.0	1474.5	1176.3	10.9 1.032
	13	14.0	1546.7	1248.5	12.5 0.971
	14	16.0	1615.0	1316.9	14.1 0.920
	15	18.0	1677.4	1379.3	15.6 0.876
	16	20.0	1736.1	1437.9	17.1 0.835
	17	22.0	1795.7	1497.6	18.5 0.801
	18	24.0	1851.8	1553.7	19.9 0.770
	19	26.0	1905.4	1607.2	21.3 0.740
	20	28.0	1949.8	1651.7	22.6 0.715
	21	30.0	1998.6	1700.4	23.9 0.690
	22	35.0	2100.0	1801.8	26.9 0.639
	23	40.0	2183.0	1884.9	29.8 0.594
	24	45.0	2248.1	1949.9	32.5 0.557
	25	50.0	2295.5	1997.4	35.1 0.524
	26	55.0	2328.1	2030.0	37.5 0.495
	27	60.0	2349.9	2051.8	39.7 0.470
	28	70.0	2377.6	2079.4	43.8 0.427
	29	80.0	2392.5	2094.4	47.6 0.392
	30	90.0	2401.4	2103.2	50.9 0.362
	31	100.0	2407.7	2109.6	54.0 0.337
	32	110.0	2413.1	2115.0	56.7 0.315
	33	120.0	2416.5	2118.3	59.3 0.296
	34	135.0	2421.5	2123.3	62.7 0.271
	35	150.0	2426.2	2128.0	65.8 0.251
	36	165.0	2429.6	2131.4	68.5 0.233
G	37	183.4	2433.6	2135.4	71.5 0.215

REMARKS:

TICKET NO : 00691200

GAUGE NO : 6039

CLOCK NO : 9756 HOUR : 24
















DEPTH: 5679.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	215.5		
	2	3.0	153.1	-62.4	
	3	6.0	155.7	2.6	
	4	9.0	178.4	22.8	
	5	12.0	196.2	17.8	
	6	15.0	209.3	13.2	
	7	18.0	218.6	9.2	
	8	21.0	229.0	10.4	
	9	24.0	238.5	9.5	
C	10	28.5	244.7	6.2	
FIRST CLOSED-IN					
C	1	0.0	244.7		
	2	1.0	1002.7	757.9	1.0 1.475
	3	2.0	1378.6	1133.9	1.9 1.188
	4	3.0	1592.2	1347.5	2.7 1.022
	5	4.0	1716.6	1471.9	3.5 0.909
	6	5.0	1789.8	1545.1	4.2 0.830
	7	6.0	1861.6	1616.9	4.9 0.762
	8	7.1	1946.6	1701.9	5.7 0.702
	9	8.0	1999.6	1754.9	6.3 0.658
	10	9.0	2058.1	1813.3	6.9 0.619
	11	10.0	2098.7	1854.0	7.4 0.587
	12	12.0	2204.1	1959.4	8.4 0.529
	13	14.0	2282.4	2037.7	9.4 0.483
	14	16.0	2362.1	2117.4	10.3 0.444
	15	18.0	2432.5	2187.8	11.0 0.413
	16	20.0	2493.5	2248.8	11.8 0.385
	17	22.0	2552.3	2307.6	12.4 0.361
	18	24.0	2603.1	2358.4	13.0 0.341
	19	26.0	2645.9	2401.2	13.6 0.321
	20	28.0	2684.1	2439.4	14.1 0.305
	21	30.0	2715.0	2470.3	14.6 0.290
	22	35.0	2764.8	2520.0	15.7 0.259
	23	40.0	2797.9	2553.1	16.7 0.234
	24	45.0	2814.5	2569.8	17.5 0.213
	25	50.0	2823.9	2579.2	18.2 0.196
	26	55.0	2828.2	2583.5	18.8 0.181
D	27	59.5	2830.8	2586.1	19.3 0.170
SECOND FLOW					
E	1	0.0	165.4		
	2	5.0	172.4	6.9	
	3	10.0	209.0	36.6	
	4	15.0	229.8	20.9	
	5	20.0	249.9	20.1	
	6	25.0	266.2	16.3	
	7	30.0	273.2	7.1	

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	8	35.0	280.8	7.6	
	9	40.0	283.0	2.2	
	10	45.0	289.9	6.9	
	11	50.0	292.6	2.7	
	12	55.0	298.0	5.4	
	13	60.0	302.0	3.9	
	14	65.0	304.0	2.0	
	15	70.0	308.1	4.1	
	16	75.0	313.2	5.2	
	17	80.0	316.2	3.0	
	18	85.0	318.9	2.7	
F	19	88.6	321.6	2.7	
SECOND CLOSED-IN					
F	1	0.0	321.6		
	2	1.0	524.2	202.6	1.0 2.064
	3	2.0	651.3	329.7	2.0 1.773
	4	3.0	847.1	525.5	3.0 1.598
	5	4.0	1003.8	682.2	3.9 1.482
	6	5.0	1107.7	786.1	4.8 1.385
	7	6.0	1172.7	851.0	5.7 1.312
	8	7.0	1226.4	904.8	6.6 1.251
	9	8.0	1279.4	957.8	7.5 1.195
	10	9.0	1321.5	999.9	8.4 1.145
	11	10.0	1359.4	1037.7	9.2 1.106
	12	12.0	1437.4	1115.8	10.9 1.032
	13	14.0	1510.7	1189.1	12.5 0.971
	14	16.0	1579.4	1257.8	14.1 0.920
	15	18.0	1644.5	1322.9	15.6 0.875
	16	20.0	1711.9	1390.3	17.1 0.837
	17	22.0	1772.8	1451.2	18.5 0.801
	18	24.0	1829.4	1507.8	19.9 0.769
	19	26.0	1888.7	1567.1	21.3 0.741
	20	28.0	1941.9	1620.2	22.6 0.715
	21	30.0	1992.4	1670.8	23.9 0.691
	22	35.0	2097.6	1776.0	26.9 0.639
	23	40.0	2190.1	1868.5	29.8 0.595
	24	45.0	2259.9	1938.3	32.5 0.557
	25	50.0	2313.8	1992.2	35.1 0.524
	26	55.0	2350.8	2029.2	37.4 0.496
	27	60.0	2376.0	2054.4	39.7 0.470
	28	70.0	2406.9	2085.3	43.8 0.427
	29	80.0	2424.6	2103.0	47.5 0.392
	30	90.0	2432.5	2110.9	50.9 0.362
	31	100.0	2439.3	2117.7	54.0 0.337
	32	110.0	2440.8	2119.2	56.7 0.315
	33	120.0	2447.4	2125.8	59.3 0.296
	34	135.0	2454.2	2132.6	62.7 0.271
	35	150.0	2458.4	2136.8	65.8 0.251
	36	165.0	2462.9	2141.3	68.5 0.233
G	37	183.4	2466.0	2144.4	71.5 0.215

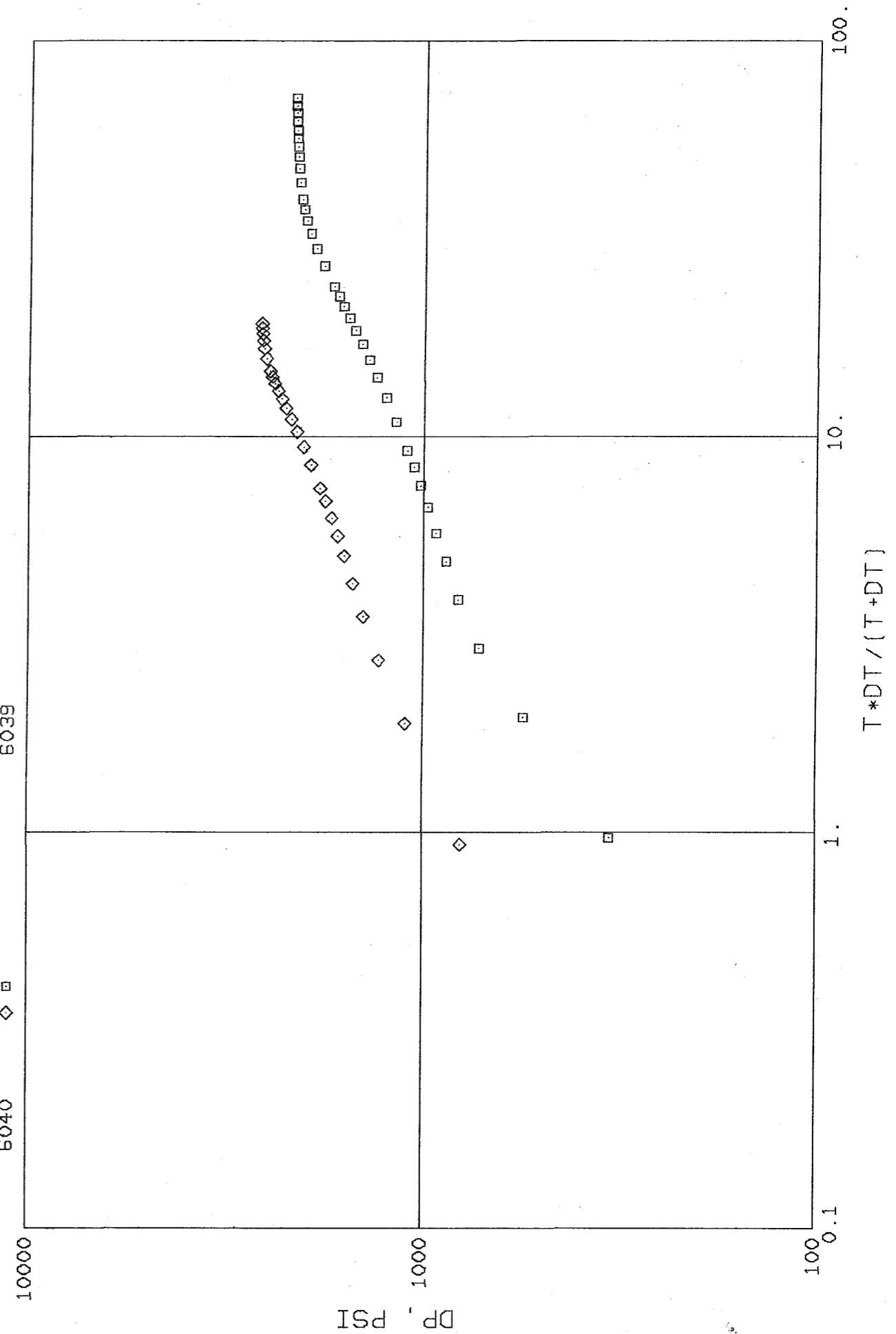
REMARKS:

TICKET NO. 00691200

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4971.0	
3		DRILL COLLARS.....	6.250	2.500	531.0	
50		IMPACT REVERSING SUB.....	6.250	2.500	1.0	5500.0
3		DRILL COLLARS.....	6.250	2.500	91.0	
5		CROSSOVER.....	6.250	2.500	1.0	
51		PUMP OUT REVERSING SUB.....	6.250	2.500	1.0	5593.0
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5605.0
80		AP RUNNING CASE.....	5.000	2.340	4.0	5607.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5622.0
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5628.0
20		FLUSH JOINT ANCHOR.....	5.750	3.240	48.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5679.0
TOTAL DEPTH					5682.0	

EQUIPMENT DATA

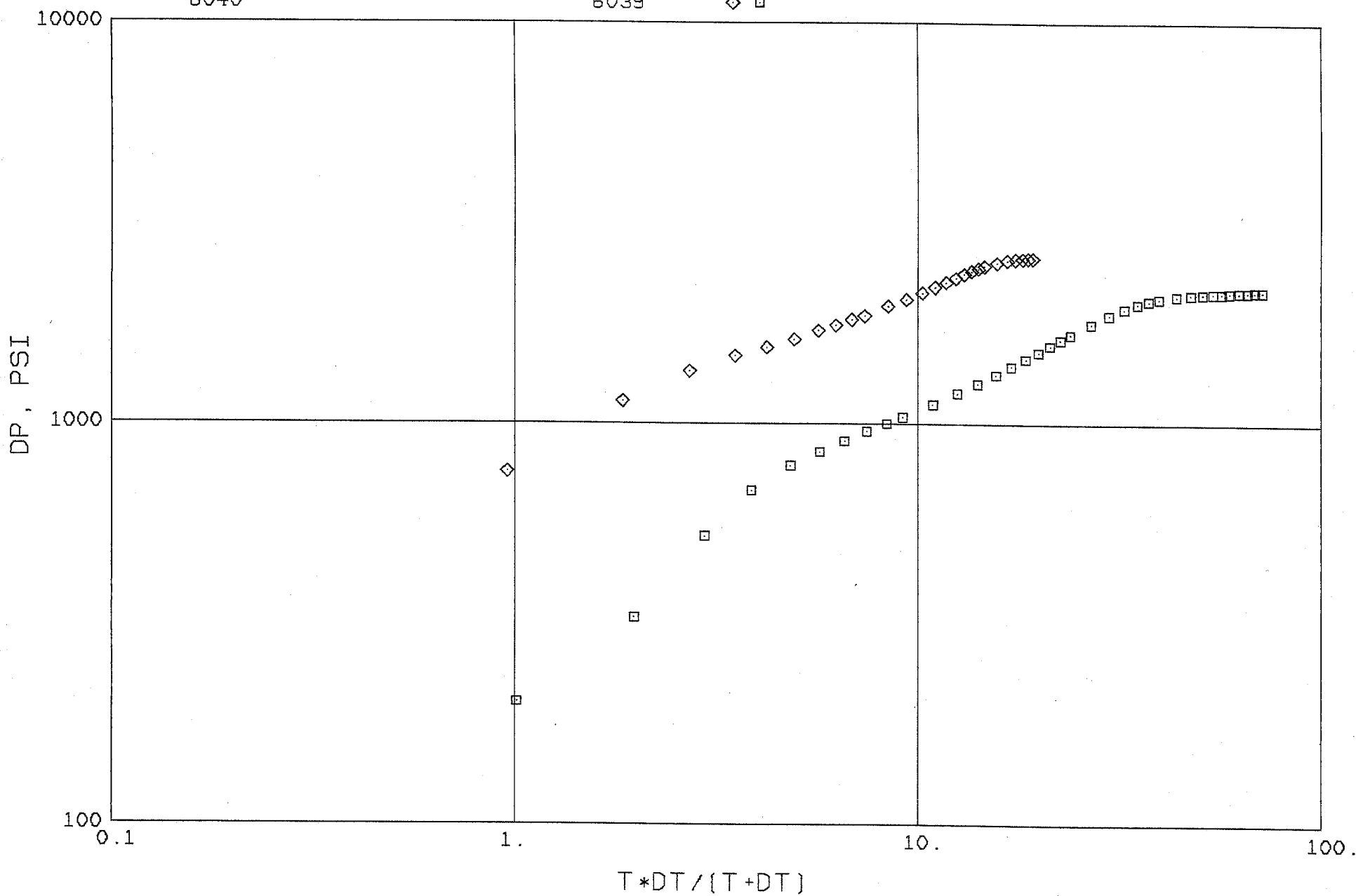
TICKET NO 00691200

GAUGE NO CIP 1 2
6039GAUGE NO CIP 1 2
6040

GAUGE NO CIP 1 2
6040

GAUGE NO CIP 1 2
6039

TICKET NO 00691200

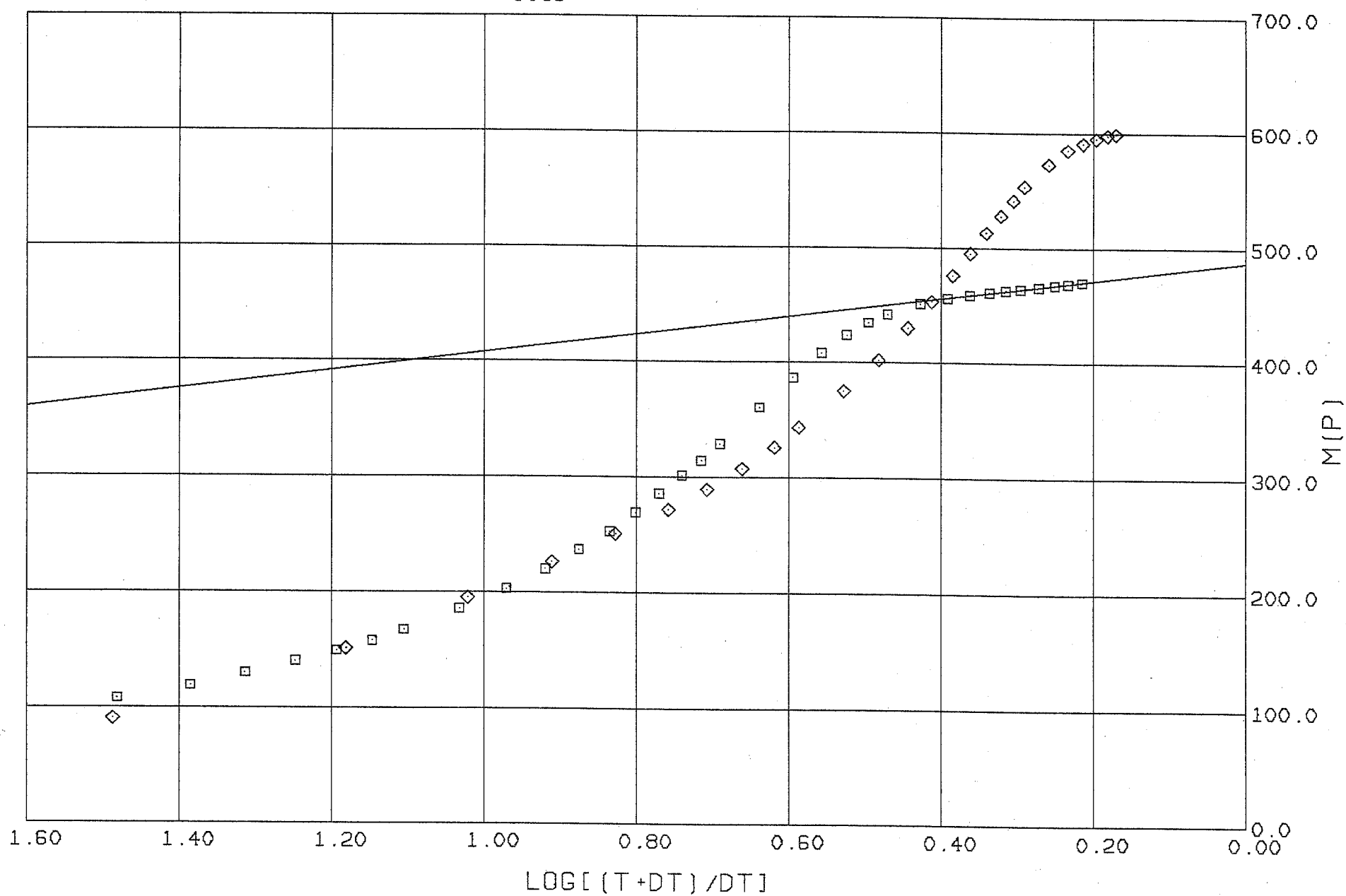


882

GAUGE NO CIP 1 2
6040

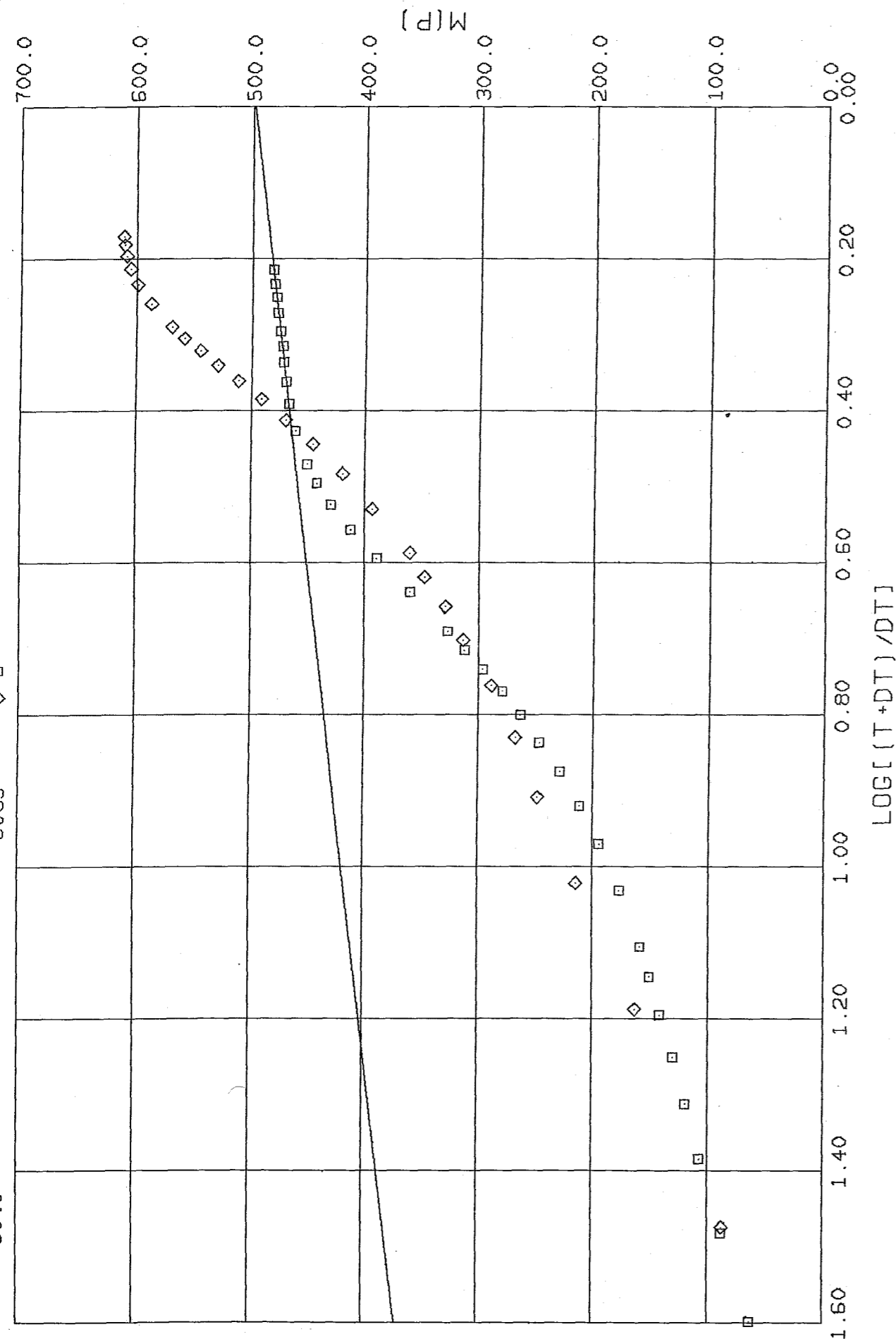
GAUGE NO CIP 1 2
6039

TICKET NO 00691200



883

TICKET NO 00691200

GAUGE NO CIP 1 2
5039GAUGE NO CIP 1 2
5040

LOG[(T+DT)/DT]

884

TICKET NUMBER 00691200

885

SUMMARY OF RESERVOIR PARAMETERS
USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY 0.600 TEMPERATURE 123.0 °F
NET PAY 0.0 ft POROSITY 10.0 %
RADIUS OF WELL BORE 0.328 ft VISCOSITY 0.017 cp
GAS DEVIATION FACTOR 0.842 GAS PROPERTIES AT 2516.0 psig
SYSTEM COMPRESSIBILITY 315.12×10^{-6} vol/vol/psi

GAUGE NUMBER	5040	5039					
GAUGE DEPTH	5607.0	5679.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	298.2	321.6					psig
TOTAL FLOW TIME	117.2	117.2					min
CALC. STATIC PRESSURE P^*	2483.9	2516.0					psig
EXTRAPOLATED PRESSURE $m(P^*)$	487.7	498.8					$\frac{m \text{ psi}^2}{cp}$
ONE CYCLE PRESSURE $m(P_{10})$	407.5	418.8					$\frac{m \text{ psi}^2}{cp}$
PRODUCTION RATE Q	116.0	116.0					MCFD
FLOW CAPACITY kh	1.38024	1.38371					md-ft
PERMEABILITY k	0.02556	0.02562					md
SKIN FACTOR S	3.8	3.9					
DAMAGE RATIO DR	2.2	2.3					
INDICATED RATE MAX AOF_1	118.1	118.4					MCFD
INDICATED RATE MIN AOF_2	117.0	117.2					MCFD
THEORETICAL RATE $DR \times AOF_1$	261.3	267.8					MCFD
THEORETICAL RATE $DR \times AOF_2$	258.9	265.2					MCFD
RADIUS OF INVESTIGATION r_i	9.7	9.7					ft

REMARKS: CALCULATED RESULTS ARE EFFECTIVE TO GAS PRODUCTION.

RATE USED IN THE ANALYSIS WAS THE LAST REPORTED SEPARATOR RATE PRIOR TO THE SECOND CLOSED-IN PERIOD. THE CLOSED-IN PERIODS EXHIBITED ANOMALOUS BEHAVIOR EARLY; HOWEVER, THERE APPEARS TO BE A SEMI-LOG STRAIGHT LINE LATER IN THE SECOND BUILDUP.

LOSS OF PRESSURE BETWEEN THE FIRST AND SECOND CLOSED-IN PERIODS COULD INDICATE DEPLETION.

THE NET THICKNESS WAS ASSUMED TO BE TOTAL TESTED INTERVAL.

NOTICE: BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HRS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HRS. HRS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HRS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HRS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

EQUATIONS FOR DST LIQUID WELL ANALYSIS

Transmissibility	$\frac{kh}{\mu} = \frac{162.6 Q_B}{m}$	$\frac{\text{md-ft}}{\text{cp}}$
Indicated Flow Capacity	$kh = \frac{kh}{\mu} \mu$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151 \left[\frac{P^* - P_i}{m} - \text{LOG} \left(\frac{k (t/60)}{\phi \mu c_i r_w^2} \right) + 3.23 \right]$	
Damage Ratio	$DR = \frac{P^* - P_i}{P^* - P_i - 0.87 mS}$	
Theoretical Potential w/Damage Removed	$Q_i = Q DR$	BPD
Approx. Radius of Investigation	$r_i = 0.032 \sqrt{\frac{k (t/60)}{\phi \mu c_i}}$	ft

EQUATIONS FOR DST GAS WELL ANALYSIS

Indicated Flow Capacity	$kh = \frac{.001637 Q_g T}{m}$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151 \left[\frac{m(P^*) - m(P_i)}{m} - \text{LOG} \left(\frac{k (t/60)}{\phi \mu c_i r_w^2} \right) + 3.23 \right]$	
Damage Ratio	$DR = \frac{m(P^*) - m(P_i)}{m(P^*) - m(P_i) - 0.87 mS}$	
Indicated Flow Rate (Maximum)	$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_i)}$	MCFD
Indicated Flow Rate (Minimum)	$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_i)}}$	MCFD
Approx. Radius of Investigation	$r_i = 0.032 \sqrt{\frac{k (t/60)}{\phi \mu c_i}}$	ft

Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HRS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by HRS. HRS personnel will use their best efforts in gathering such information and their best judgment in interpreting it but customer agrees that HRS shall not be responsible for any damages arising from the use of such information except where due to HRS gross negligence or willful misconduct in the preparation of furnishing of information.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Ampolex (Texas), Inc.

3. Address and Telephone No.

1225 17th Street, Suite #3000, Denver, CO 80202 (303) 297-1000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW SW Section 17-T37S-R26E

684' FWL & 624' FSL

5. Lease Designation and Serial No.

U-57609

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Lower Squaw Point

8. Well Name and No.

Lower Squaw Point #1

9. API Well No.

43-037-31687

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set cement plugs as follows:

6,167' - 5,967'	60 SX	
4,708' - 4,508'	100 SX	(Tagged @ 4,468')
1,997' - 1,797'	85 SX	
50' - Surface	20 SX	

Set dry hole marker.

RECEIVED

DEC 16 1992

**DIVISION OF
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed

Robert C. Greenaway

Senior Petroleum Engineer

Date

12/15/92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

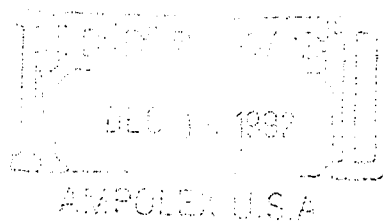
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

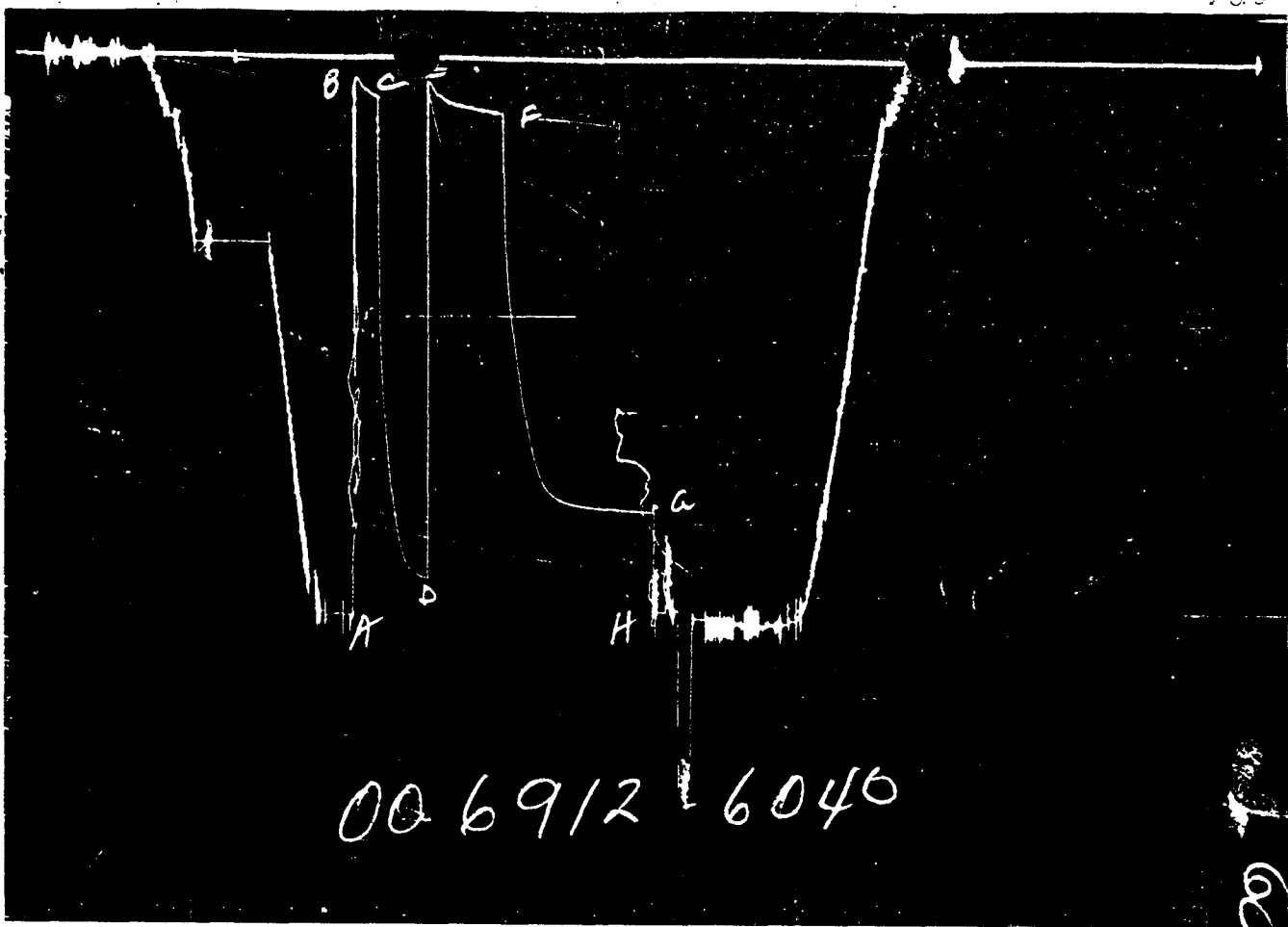
*See Instruction on Reverse Side

<p>AMPOLEX (TEXAS), INC.</p> <p>LEASE : LOWER SQUAW POINT</p> <p>WELL NO.: 1</p> <p>TEST NO.: 1</p>

TICKET NO. 00691200
 08-DEC-92
 FARMINGTON

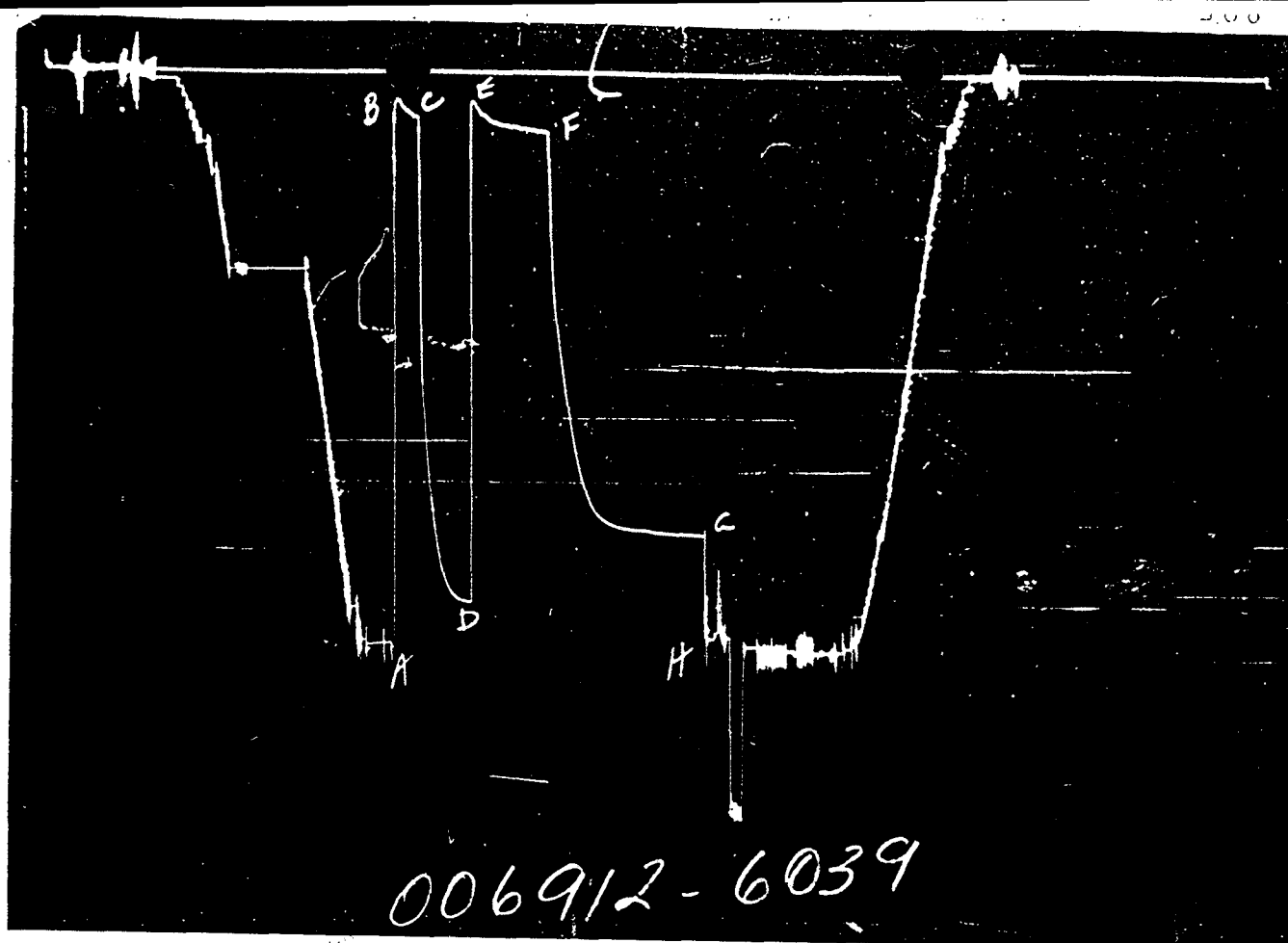
LEGAL LOCATION SEC. - TWP. - RNG.	17 - 35 S - 26 E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH	SM
LEASE NAME	1	WELL NO.	1	TEST NO.	5628.0 - 5682.0	TESTED INTERVAL	AMPOLEX (TEXAS), INC.	LEASE OWNER/COMPANY NAME





GAUGE NO: 6040 DEPTH: 5607.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2970	2998.0			
B	INITIAL FIRST FLOW	81	159.9			
C	FINAL FIRST FLOW	188	218.0	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	188	218.0			
D	FINAL FIRST CLOSED-IN	2781	2798.2	60.0	59.5	C
E	INITIAL SECOND FLOW	135	144.0			
F	FINAL SECOND FLOW	322	298.2	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	322	298.2			
G	FINAL SECOND CLOSED-IN	2416	2433.6	180.0	183.4	C
H	FINAL HYDROSTATIC	2970	2969.5			



GAUGE NO: 6039 DEPTH: 5679.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3025	3050.0			
B	INITIAL FIRST FLOW	120	215.5			
C	FINAL FIRST FLOW	241	244.7	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	241	244.7			
D	FINAL FIRST CLOSED-IN	2828	2830.8	60.0	59.5	C
E	INITIAL SECOND FLOW	147	165.4			
F	FINAL SECOND FLOW	308	321.6	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	308	321.6			
G	FINAL SECOND CLOSED-IN	2504	2466.0	180.0	183.4	C
H	FINAL HYDROSTATIC	3025	3018.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HERMOSA

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 54.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 6103.0

TOTAL DEPTH (ft): 5682.0

PACKER DEPTH(S) (ft): 5622. 5628

FINAL SURFACE CHOKE (in): 0.25000

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 10.00

MUD VISCOSITY (sec): 48

ESTIMATED HOLE TEMP. (°F): 123

ACTUAL HOLE TEMP. (°F): 123 @ 5677.0 ft

TICKET NUMBER: 00691200

DATE: 11-14-92 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:

FARMINGTON

TESTER: KEN TROUTH

WITNESS: KEN WEST

DRILLING CONTRACTOR:

ARAPAHOE #11

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

<u>MUD PIT</u>	<u>2.700 @ 60 °F</u>	<u>2300</u> ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 270.0

cu.ft. OF GAS: 1.870

cc OF OIL: 300.0

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: 300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 42.0 @ 60 °F

GAS/OIL RATIO (cu.ft. per bbl): 991

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

3 BBLs. OF OIL (REVERSED OUT TO TANK)
45 BBLs. OF HIGHLY GAS AND OIL CUT DRILLING MUD

MEASURED FROM
TESTER VALVE

REMARKS :

- 1) GAS TO THE SURFACE IN 15 MINUTES GOING TO SEPARATOR....SEPARATOR 130' FROM FLOOR MANIFOLD - 2" LINE.
- 2) CHARTS INDICATE A MECHANICALLY SUCCESSFUL TEST.
- 3) CHARTS INDICATE MEDIUM PRODUCTIVITY WITH POSSIBLE FORMATION DAMAGE. LOSS OF APPROXIMATELY 350 PSI FROM FIRST CLOSED IN TO SECOND CLOSED IN PERIOD COULD INDICATE DEPLETION. THE LOSS IN PRESSURE COULD ALSO INDICATE SUPERCHARGE EFFECTS; HOWEVER A 30 MINUTE FIRST FLOW IS NORMALLY LONG ENOUGH TO REMOVE ANY SUPERCHARGE.

TYPE & SIZE MEASURING DEVICE : <u>SEPARATOR</u>					TICKET NO: 00591200
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-13-92					
2230					ON LOCATION
11-14-92					
0030					LOADED GAUGES
0100					PICKED UP TOOLS; SLOWLY RAN IN HOLE
0545					MADE UP CONTROL HEAD
0610					SET WEIGHT ON PACKER
0615	BH				OPENED TOOL WITH STRONG BLOW
0619		4			STRONG BLOW
0625	.25	25			STRONG BLOW
0630		38			GAS TO THE SURFACE
		FCP	MCFD		
0635		50*	130.7		TURNUED THROUGH SEPARATOR
					*AS PER SEPARATOR WITH 1 1/4"
					PLATE
0640					FLARED GAS
0645					CLOSED TOOL
0745					OPENED TOOL WITH STRONG BLOW
0748					FLOWING THROUGH SEPARATOR
					(NOTE: PRESSURES AND RATES
					AS PER SEPARATOR WITH 1 1/4"
					PLATE)
		FCP	MCFD		
0800		90	158.3		
0815		91	149.3		
0830		87	136.8		
0845		84	126.9		
0900		83	118.8		
0915		82	116.0		CLOSED TOOL
1215					PULLED TOOL LOOSE
1220					PULLED 60 FEET, RIGGED TO
					REVERSE OUT
1230					REVERSED OUT
1330					CIRCULATED
1500					TRIPPED OUT OF HOLE
1800					BROKE DOWN TOOLS
1930					JOB COMPLETED

TICKET NO: 00691200

CLOCK NO: 13840 HOUR: 24

GAUGE NO: 6040

DEPTH: 5607.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	159.9			
2	3.0	120.2	-39.7		
3	6.0	126.9	6.7		
4	9.0	153.4	26.5		
5	12.0	169.7	16.3		
6	15.0	181.4	11.6		
7	18.0	191.0	9.6		
8	21.0	201.6	10.6		
9	24.0	211.3	9.8		
C 10	28.5	218.0	6.7		
FIRST CLOSED-IN					
C 1	0.0	218.0			
2	1.0	1017.6	799.6	0.9	1.487
3	2.0	1324.3	1106.3	1.9	1.181
4	3.0	1513.7	1295.7	2.7	1.021
5	4.0	1636.8	1418.7	3.5	0.911
6	5.0	1727.4	1509.4	4.2	0.828
7	6.0	1804.8	1586.8	5.0	0.758
8	7.0	1864.3	1646.3	5.6	0.707
9	8.0	1925.9	1707.9	6.2	0.661
10	9.0	1988.8	1770.8	6.9	0.619
11	10.0	2045.1	1827.0	7.4	0.587
12	12.0	2145.9	1927.9	8.5	0.528
13	14.0	2230.1	2012.1	9.4	0.482
14	16.0	2314.0	2096.0	10.3	0.444
15	18.0	2383.4	2165.4	11.0	0.412
16	20.0	2449.7	2231.6	11.8	0.385
17	22.0	2505.9	2287.8	12.4	0.361
18	24.0	2557.2	2339.2	13.0	0.341
19	26.0	2600.2	2382.2	13.6	0.322
20	28.0	2637.1	2419.1	14.1	0.305
21	30.0	2671.1	2453.0	14.6	0.291
22	35.0	2724.7	2506.7	15.7	0.259
23	40.0	2759.2	2541.2	16.7	0.234
24	45.0	2775.9	2557.9	17.5	0.213
25	50.0	2786.8	2568.8	18.2	0.196
26	55.0	2795.2	2577.2	18.8	0.182
D 27	59.5	2798.2	2580.1	19.3	0.170
SECOND FLOW					
E 1	0.0	144.0			
2	5.0	153.5	9.5		
3	10.0	194.2	40.7		
4	15.0	211.5	17.3		
5	20.0	231.2	19.7		
6	25.0	243.7	12.5		
7	30.0	250.3	6.7		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	257.8	7.5		
9	40.0	260.4	2.5		
10	45.0	265.6	5.2		
11	50.0	268.2	2.5		
12	55.0	276.1	7.9		
13	60.0	277.5	1.5		
14	65.0	281.4	3.9		
15	70.0	283.4	2.0		
16	75.0	290.0	6.6		
17	80.0	291.3	1.3		
18	85.0	296.1	4.8		
F 19	88.6	298.2	2.0		
SECOND CLOSED-IN					
F 1	0.0	298.2			
2	1.0	632.2	334.0	1.0	2.083
3	2.0	853.7	555.5	2.0	1.779
4	3.0	1019.2	721.0	2.9	1.604
5	4.0	1112.7	814.5	3.9	1.482
6	5.0	1172.3	874.2	4.8	1.385
7	6.0	1227.0	928.8	5.7	1.314
8	7.0	1273.4	975.2	6.6	1.248
9	8.0	1316.2	1018.1	7.5	1.193
10	9.0	1356.2	1058.0	8.4	1.147
11	10.0	1399.9	1101.7	9.2	1.105
12	12.0	1474.5	1176.3	10.9	1.032
13	14.0	1546.7	1248.5	12.5	0.971
14	16.0	1615.0	1316.9	14.1	0.920
15	18.0	1677.4	1379.3	15.6	0.876
16	20.0	1736.1	1437.9	17.1	0.835
17	22.0	1795.7	1497.6	18.5	0.801
18	24.0	1851.8	1553.7	19.9	0.770
19	26.0	1905.4	1607.2	21.3	0.740
20	28.0	1949.8	1651.7	22.6	0.715
21	30.0	1998.6	1700.4	23.9	0.690
22	35.0	2100.0	1801.8	26.9	0.639
23	40.0	2183.0	1884.9	29.8	0.594
24	45.0	2248.1	1949.9	32.5	0.557
25	50.0	2295.5	1997.4	35.1	0.524
26	55.0	2328.1	2030.0	37.5	0.495
27	60.0	2349.9	2051.8	39.7	0.470
28	70.0	2377.6	2079.4	43.8	0.427
29	80.0	2392.5	2094.4	47.6	0.392
30	90.0	2401.4	2103.2	50.9	0.362
31	100.0	2407.7	2109.6	54.0	0.337
32	110.0	2413.1	2115.0	56.7	0.315
33	120.0	2416.5	2118.3	59.3	0.296
34	135.0	2421.5	2123.3	62.7	0.271
35	150.0	2426.2	2128.0	65.8	0.251
36	165.0	2429.6	2131.4	68.5	0.233
G 37	183.4	2433.6	2135.4	71.5	0.215

REMARKS:

TICKET NO: 00691200

GAUGE NO: 6039
















CLOCK NO: 9756 HOUR: 24

DEPTH: 5679.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	215.5			
2	3.0	153.1	-62.4		
3	6.0	155.7	2.6		
4	9.0	178.4	22.8		
5	12.0	196.2	17.8		
6	15.0	209.3	13.2		
7	18.0	218.6	9.2		
8	21.0	229.0	10.4		
9	24.0	238.5	9.5		
C 10	28.5	244.7	6.2		
FIRST CLOSED-IN					
C 1	0.0	244.7			
2	1.0	1002.7	757.9	1.0	1.475
3	2.0	1378.6	1133.9	1.9	1.188
4	3.0	1592.2	1347.5	2.7	1.022
5	4.0	1716.6	1471.9	3.5	0.909
6	5.0	1789.8	1545.1	4.2	0.830
7	6.0	1861.6	1616.9	4.9	0.762
8	7.1	1946.6	1701.9	5.7	0.702
9	8.0	1999.6	1754.9	6.3	0.658
10	9.0	2058.1	1813.3	6.9	0.619
11	10.0	2098.7	1854.0	7.4	0.587
12	12.0	2204.1	1959.4	8.4	0.529
13	14.0	2282.4	2037.7	9.4	0.483
14	16.0	2362.1	2117.4	10.3	0.444
15	18.0	2432.5	2187.8	11.0	0.413
16	20.0	2493.5	2248.8	11.8	0.385
17	22.0	2552.3	2307.6	12.4	0.361
18	24.0	2603.1	2358.4	13.0	0.341
19	26.0	2645.9	2401.2	13.6	0.321
20	28.0	2684.1	2439.4	14.1	0.305
21	30.0	2715.0	2470.3	14.6	0.290
22	35.0	2764.8	2520.0	15.7	0.259
23	40.0	2797.9	2553.1	16.7	0.234
24	45.0	2814.5	2569.8	17.5	0.213
25	50.0	2823.9	2579.2	18.2	0.196
26	55.0	2828.2	2583.5	18.8	0.181
D 27	59.5	2830.8	2586.1	19.3	0.170
SECOND FLOW					
E 1	0.0	165.4			
2	5.0	172.4	6.9		
3	10.0	209.0	36.6		
4	15.0	229.8	20.9		
5	20.0	249.9	20.1		
6	25.0	266.2	16.3		
7	30.0	273.2	7.1		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	280.8	7.6		
9	40.0	283.0	2.2		
10	45.0	289.9	6.9		
11	50.0	292.6	2.7		
12	55.0	298.0	5.4		
13	60.0	302.0	3.9		
14	65.0	304.0	2.0		
15	70.0	308.1	4.1		
16	75.0	313.2	5.2		
17	80.0	316.2	3.0		
18	85.0	318.9	2.7		
F 19	88.6	321.6	2.7		
SECOND CLOSED-IN					
F 1	0.0	321.6			
2	1.0	524.2	202.6	1.0	2.064
3	2.0	651.3	329.7	2.0	1.773
4	3.0	847.1	525.5	3.0	1.598
5	4.0	1003.8	682.2	3.9	1.482
6	5.0	1107.7	786.1	4.8	1.385
7	6.0	1172.7	851.0	5.7	1.312
8	7.0	1226.4	904.8	6.6	1.251
9	8.0	1279.4	957.8	7.5	1.195
10	9.0	1321.5	999.9	8.4	1.145
11	10.0	1359.4	1037.7	9.2	1.106
12	12.0	1437.4	1115.8	10.9	1.032
13	14.0	1510.7	1189.1	12.5	0.971
14	16.0	1579.4	1257.8	14.1	0.920
15	18.0	1644.5	1322.9	15.6	0.875
16	20.0	1711.9	1390.3	17.1	0.837
17	22.0	1772.8	1451.2	18.5	0.801
18	24.0	1829.4	1507.8	19.9	0.769
19	26.0	1888.7	1567.1	21.3	0.741
20	28.0	1941.9	1620.2	22.6	0.715
21	30.0	1992.4	1670.8	23.9	0.691
22	35.0	2097.6	1776.0	26.9	0.639
23	40.0	2190.1	1868.5	29.8	0.595
24	45.0	2259.9	1938.3	32.5	0.557
25	50.0	2313.8	1992.2	35.1	0.524
26	55.0	2350.8	2029.2	37.4	0.496
27	60.0	2376.0	2054.4	39.7	0.470
28	70.0	2406.9	2085.3	43.8	0.427
29	80.0	2424.6	2103.0	47.5	0.392
30	90.0	2432.5	2110.9	50.9	0.362
31	100.0	2439.3	2117.7	54.0	0.337
32	110.0	2440.8	2119.2	56.7	0.315
33	120.0	2447.4	2125.8	59.3	0.296
34	135.0	2454.2	2132.6	62.7	0.271
35	150.0	2458.4	2136.8	65.8	0.251
36	165.0	2462.9	2141.3	68.5	0.233
G 37	183.4	2466.0	2144.4	71.5	0.215

REMARKS:

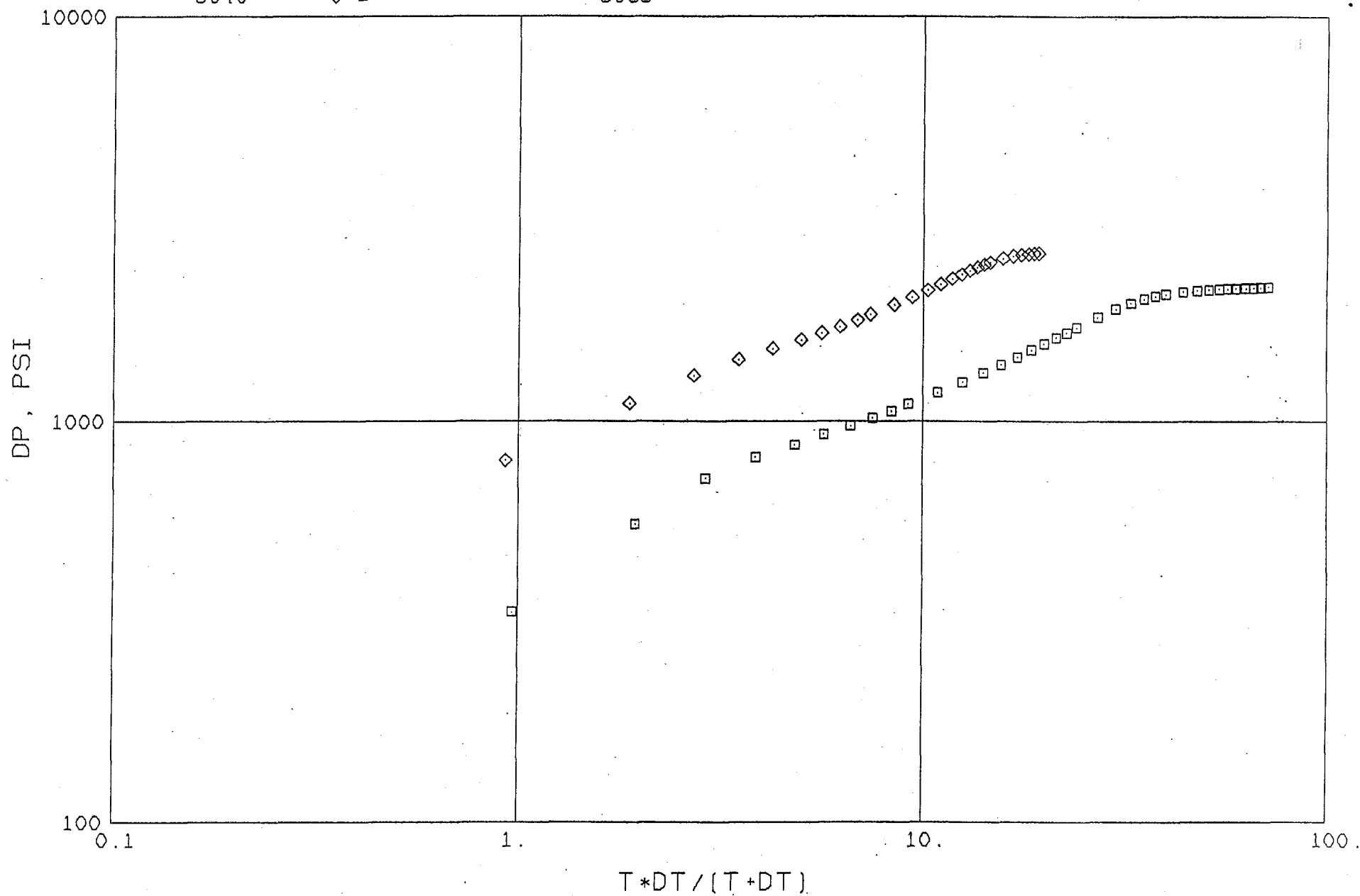
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4971.0	
3		DRILL COLLARS.....	6.250	2.500	531.0	
50		IMPACT REVERSING SUB.....	6.250	2.500	1.0	5500.0
3		DRILL COLLARS.....	6.250	2.500	91.0	
5		CROSSOVER.....	6.250	2.500	1.0	
51		PUMP OUT REVERSING SUB.....	6.250	2.500	1.0	5593.0
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5605.0
80		AP RUNNING CASE.....	5.000	2.340	4.0	5607.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5622.0
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5628.0
20		FLUSH JOINT ANCHOR.....	5.750	3.240	48.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5679.0
TOTAL DEPTH					5682.0	

EQUIPMENT DATA

TICKET NO 00691200

GAUGE NO CIP 1 2
6040 ◇ □

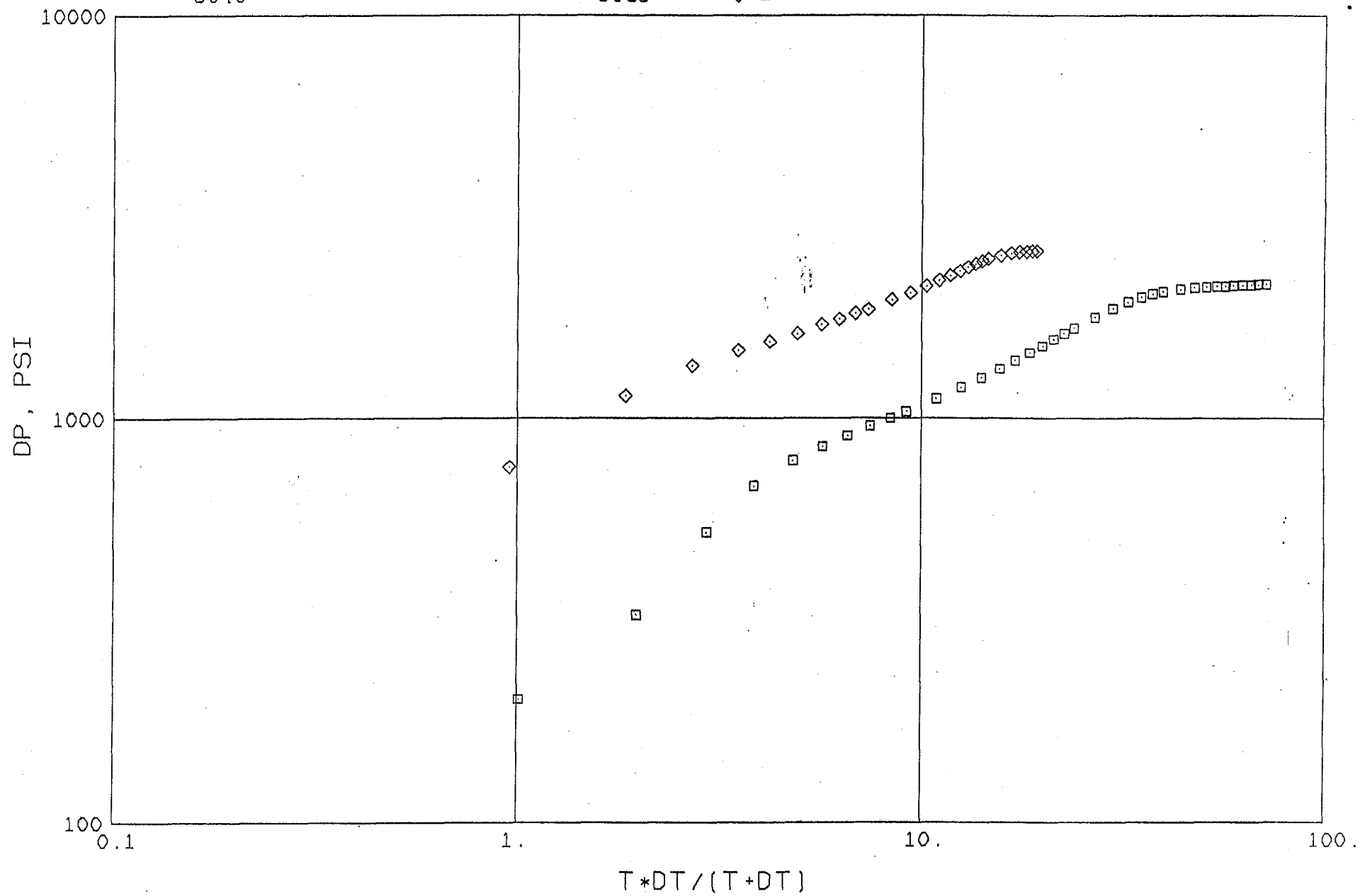
GAUGE NO CIP 1 2
6039



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

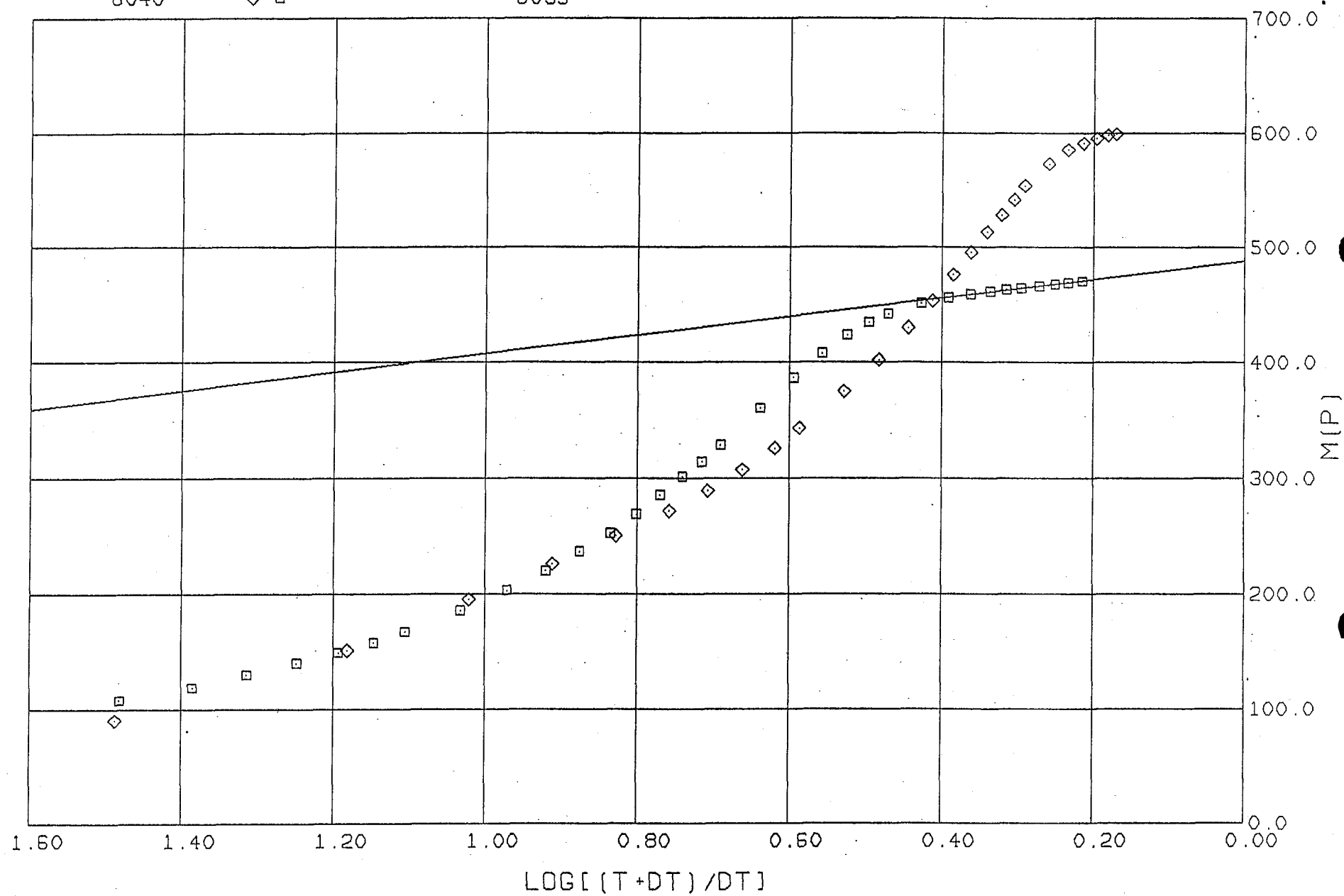
GAUGE NO CIP 1 2
6039 \diamond \square



TICKET NO 00691200

GAUGE NO CIP 1 2
6040 \diamond \square

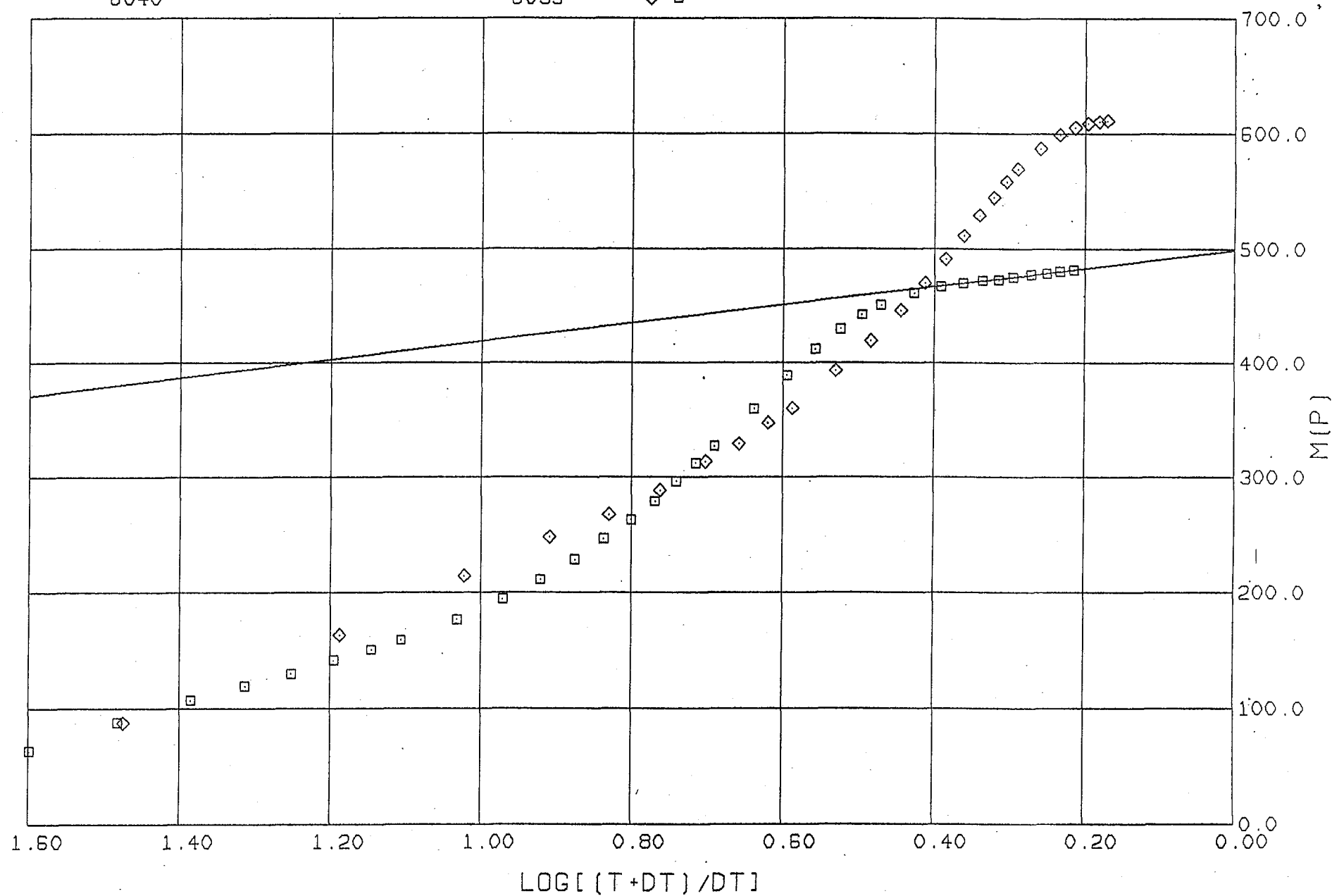
GAUGE NO CIP 1 2
6039



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

GAUGE NO CIP 1 2
6039 \diamond \square



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY 0.600 TEMPERATURE 123.0 °F
 NET PAY 0.0 ft POROSITY 10.0 %
 RADIUS OF WELL BORE 0.328 ft VISCOSITY 0.017 cp
 GAS DEVIATION FACTOR 0.842 GAS PROPERTIES AT 2516.0 psig
 SYSTEM COMPRESSIBILITY 315.12 $\times 10^{-6}$ vol/vol/psi

GAUGE NUMBER	6040	6039					
GAUGE DEPTH	5607.0	5679.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	298.2	321.6					psig
TOTAL FLOW TIME	117.2	117.2					min
CALC. STATIC PRESSURE P^*	2483.9	2516.0					psig
EXTRAPOLATED PRESSURE $m(P^*)$	487.7	498.8					$\frac{mmp \cdot si^2}{cp}$
ONE CYCLE PRESSURE $m(P_{10})$	407.5	418.8					$\frac{mmp \cdot si^2}{cp}$
PRODUCTION RATE Q	116.0	116.0					MCFD
FLOW CAPACITY kh	1.38024	1.38371					md-ft
PERMEABILITY k	0.02556	0.02562					md
SKIN FACTOR S	3.8	3.9					
DAMAGE RATIO DR	2.2	2.3					
INDICATED RATE MAX AOF_1	118.1	118.4					MCFD
INDICATED RATE MIN AOF_2	117.0	117.2					MCFD
THEORETICAL RATE $DR \times AOF_1$	261.3	267.8					MCFD
THEORETICAL RATE $DR \times AOF_2$	258.9	265.2					MCFD
RADIUS OF INVESTIGATION r_i	9.7	9.7					ft

REMARKS: CALCULATED RESULTS ARE EFFECTIVE TO GAS PRODUCTION.

RATE USED IN THE ANALYSIS WAS THE LAST REPORTED SEPARATOR RATE PRIOR TO THE SECOND CLOSED-IN PERIOD. THE CLOSED-IN PERIODS EXHIBITED ANOMALOUS BEHAVIOR EARLY; HOWEVER, THERE APPEARS TO BE A SEMI-LOG STRAIGHT LINE LATER IN THE SECOND BUILDUP.

LOSS OF PRESSURE BETWEEN THE FIRST AND SECOND CLOSED-IN PERIODS COULD INDICATE DEPLETION.

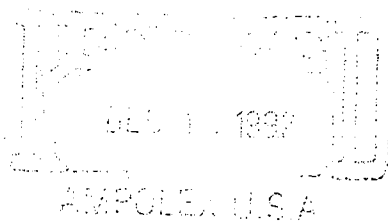
THE NET THICKNESS WAS ASSUMED TO BE TOTAL TESTED INTERVAL.

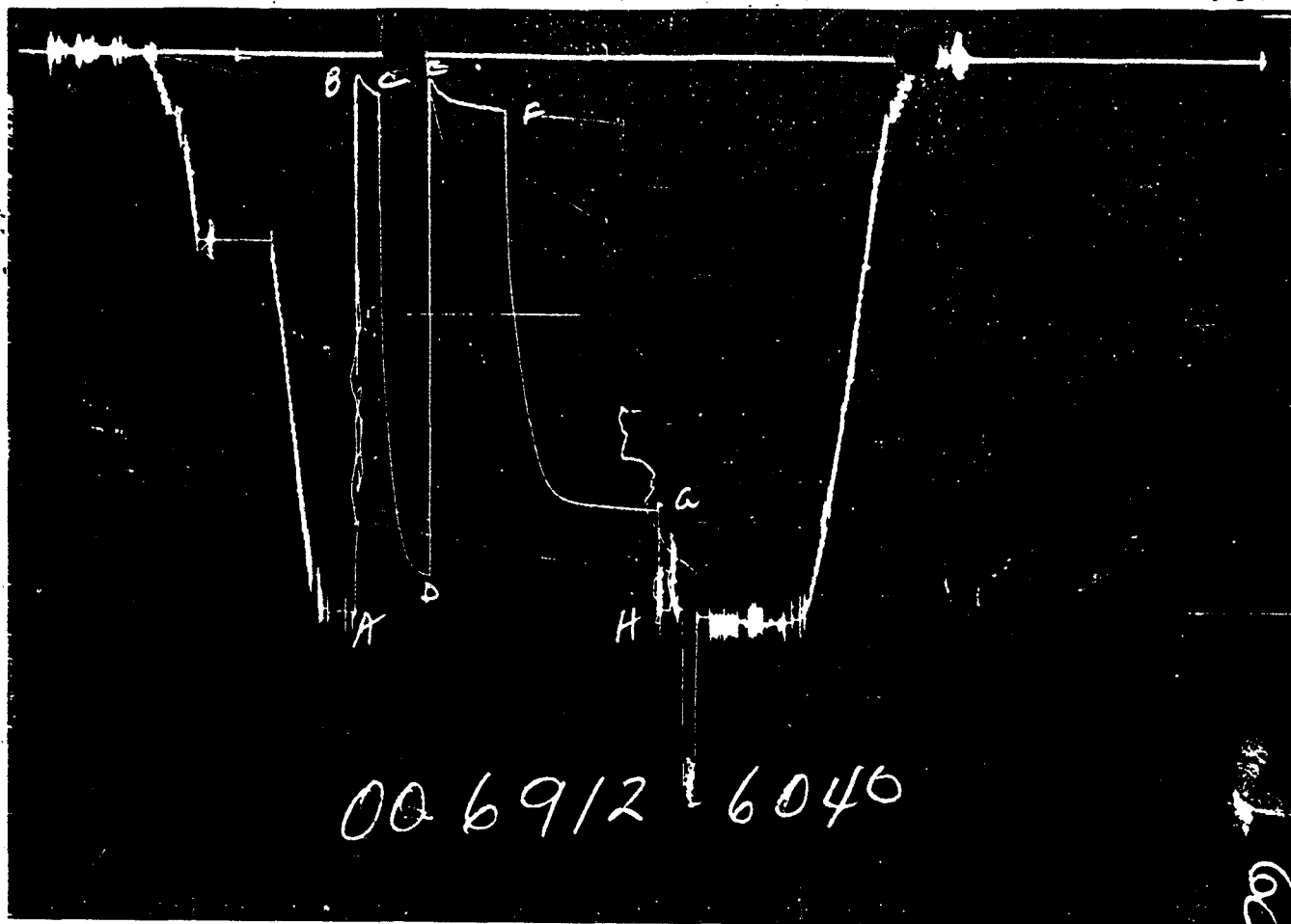
NOTICE: BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HRS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HRS. HRS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HRS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HRS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

<p>AMPOLEX (TEXAS), INC.</p> <p>LEASE : LOWER SQUAW POINT</p> <p>WELL NO.: 1</p> <p>TEST NO.: 1</p>	
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TICKET NO. 00691200
 08-DEC-92
 FARMINGTON

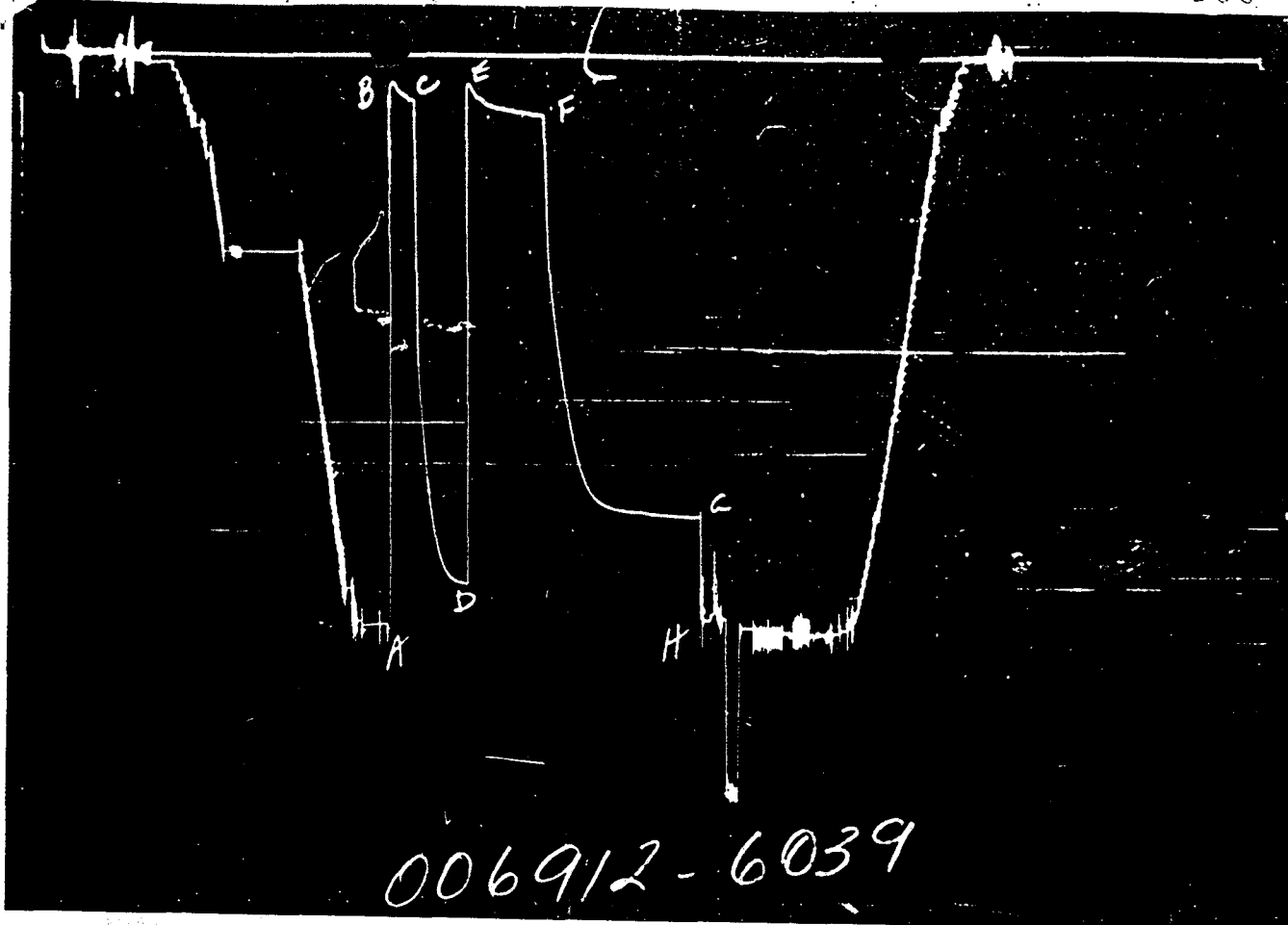
LEGAL LOCATION SEC - TWP - RANG	17 - 35 S - 26 E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH	SM
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL		LEASE OWNER/COMPANY NAME			
	1	1	5628.0 - 5682.0		AMPOLEX (TEXAS), INC.			





GAUGE NO: 6040 DEPTH: 5607.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2970	2998.0			
B	INITIAL FIRST FLOW	81	159.9			
C	FINAL FIRST FLOW	188	218.0	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	188	218.0			
D	FINAL FIRST CLOSED-IN	2781	2798.2	60.0	59.5	C
E	INITIAL SECOND FLOW	135	144.0			
F	FINAL SECOND FLOW	322	298.2	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	322	298.2			
G	FINAL SECOND CLOSED-IN	2416	2433.6	180.0	183.4	C
H	FINAL HYDROSTATIC	2970	2969.5			



GAUGE NO: 6039 DEPTH: 5679.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3025	3050.0			
B	INITIAL FIRST FLOW	120	215.5			
C	FINAL FIRST FLOW	241	244.7	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	241	244.7			
D	FINAL FIRST CLOSED-IN	2828	2830.8	60.0	59.5	C
E	INITIAL SECOND FLOW	147	165.4			
F	FINAL SECOND FLOW	308	321.6	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	308	321.6			
G	FINAL SECOND CLOSED-IN	2504	2466.0	180.0	183.4	C
H	FINAL HYDROSTATIC	3025	3018.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HERMOSA
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 54.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 6103.0
 TOTAL DEPTH (ft): 5682.0
 PACKER DEPTH(S) (ft): 5622.5628
 FINAL SURFACE CHOKE (in): 0.25000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.00
 MUD VISCOSITY (sec): 48
 ESTIMATED HOLE TEMP. (°F): 123
 ACTUAL HOLE TEMP. (°F): 123 @ 5677.0 ft

TICKET NUMBER: 00691200

DATE: 11-14-92 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:
FARMINGTON

TESTER: KEN TROUTH

WITNESS: KEN WEST

DRILLING CONTRACTOR:
ARAPAHOE #11

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>2.700 @ 60 °F</u>	<u>2300 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 270.0
 cu.ft. OF GAS: 1.870
 cc OF OIL: 300.0
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: 300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 42.0 @ 60 °F
 GAS/OIL RATIO (cu.ft. per. bbl): 991
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED :

3 BBLs. OF OIL (REVERSED OUT TO TANK)
 45 BBLs. OF HIGHLY GAS AND OIL CUT DRILLING MUD

MEASURED FROM
TESTER VALVE

REMARKS:

- 1) GAS TO THE SURFACE IN 15 MINUTES GOING TO SEPARATOR....SEPARATOR 130' FROM FLOOR MANIFOLD - 2" LINE.
- 2) CHARTS INDICATE A MECHANICALLY SUCCESSFUL TEST.
- 3) CHARTS INDICATE MEDIUM PRODUCTIVITY WITH POSSIBLE FORMATION DAMAGE. LOSS OF APPROXIMATELY 350 PSI FROM FIRST CLOSED IN TO SECOND CLOSED IN PERIOD COULD INDICATE DEPLETION. THE LOSS IN PRESSURE COULD ALSO INDICATE SUPERCHARGE EFFECTS, HOWEVER A 30 MINUTE FIRST FLOW IS NORMALLY LONG ENOUGH TO REMOVE ANY SUPERCHARGE.

TYPE & SIZE MEASURING DEVICE : SEPARATOR					TICKET NO: 00691200
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-13-92					
2230					ON LOCATION
11-14-92					
0030					LOADED GAUGES
0100					PICKED UP TOOLS; SLOWLY RAN IN HOLE
0545					MADE UP CONTROL HEAD
0610					SET WEIGHT ON PACKER
0615	BH				OPENED TOOL WITH STRONG BLOW
0619		4			STRONG BLOW
0625	.25	25			STRONG BLOW
0630		38			GAS TO THE SURFACE
		FCP	MCFD		
0635		50*	130.7		TURNUED THROUGH SEPARATOR
					*AS PER SEPARATOR WITH 1 1/4"
					PLATE
0640					FLARED GAS
0645					CLOSED TOOL
0745					OPENED TOOL WITH STRONG BLOW
0748					FLOWING THROUGH SEPARATOR
					(NOTE: PRESSURES AND RATES
					AS PER SEPARATOR WITH 1 1/4"
					PLATE)
		FCP	MCFD		
0800		90	158.3		
0815		91	149.3		
0830		87	136.8		
0845		84	126.9		
0900		83	118.8		
0915		82	116.0		CLOSED TOOL
1215					PULLED TOOL LOOSE
1220					PULLED 60 FEET, RIGGED TO
					REVERSE OUT
1230					REVERSED OUT
1330					CIRCULATED
1500					TRIPPED OUT OF HOLE
1800					BROKE DOWN TOOLS
1930					JOB COMPLETED

TICKET NO: 00691200

CLOCK NO: 13840 HOUR: 24

GAUGE NO: 6040

DEPTH: 5607-0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	159.9			
2	3.0	120.2	-39.7		
3	6.0	126.9	6.7		
4	9.0	153.4	26.5		
5	12.0	169.7	16.3		
6	15.0	181.4	11.6		
7	18.0	191.0	9.6		
8	21.0	201.6	10.6		
9	24.0	211.3	9.8		
C 10	28.5	218.0	6.7		
FIRST CLOSED-IN					
C 1	0.0	218.0			
2	1.0	1017.6	799.6	0.9	1.487
3	2.0	1324.3	1106.3	1.9	1.181
4	3.0	1513.7	1295.7	2.7	1.021
5	4.0	1636.8	1418.7	3.5	0.911
6	5.0	1727.4	1509.4	4.2	0.828
7	6.0	1804.8	1586.8	5.0	0.758
8	7.0	1864.3	1646.3	5.6	0.707
9	8.0	1925.9	1707.9	6.2	0.661
10	9.0	1988.8	1770.8	6.9	0.619
11	10.0	2045.1	1827.0	7.4	0.587
12	12.0	2145.9	1927.9	8.5	0.528
13	14.0	2230.1	2012.1	9.4	0.482
14	16.0	2314.0	2096.0	10.3	0.444
15	18.0	2383.4	2165.4	11.0	0.412
16	20.0	2449.7	2231.6	11.8	0.385
17	22.0	2505.9	2287.8	12.4	0.361
18	24.0	2557.2	2339.2	13.0	0.341
19	26.0	2600.2	2382.2	13.6	0.322
20	28.0	2637.1	2419.1	14.1	0.305
21	30.0	2671.1	2453.0	14.6	0.291
22	35.0	2724.7	2506.7	15.7	0.259
23	40.0	2759.2	2541.2	16.7	0.234
24	45.0	2775.9	2557.9	17.5	0.213
25	50.0	2786.8	2568.8	18.2	0.196
26	55.0	2795.2	2577.2	18.8	0.182
D 27	59.5	2798.2	2580.1	19.3	0.170
SECOND FLOW					
E 1	0.0	144.0			
2	5.0	153.5	9.5		
3	10.0	194.2	40.7		
4	15.0	211.5	17.3		
5	20.0	231.2	19.7		
6	25.0	243.7	12.5		
7	30.0	250.3	6.7		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	257.8	7.5		
9	40.0	260.4	2.5		
10	45.0	265.6	5.2		
11	50.0	268.2	2.5		
12	55.0	276.1	7.9		
13	60.0	277.5	1.5		
14	65.0	281.4	3.9		
15	70.0	283.4	2.0		
16	75.0	290.0	6.6		
17	80.0	291.3	1.3		
18	85.0	296.1	4.8		
F 19	88.6	298.2	2.0		
SECOND CLOSED-IN					
F 1	0.0	298.2			
2	1.0	632.2	334.0	1.0	2.083
3	2.0	853.7	555.5	2.0	1.779
4	3.0	1019.2	721.0	2.9	1.604
5	4.0	1112.7	814.5	3.9	1.482
6	5.0	1172.3	874.2	4.8	1.385
7	6.0	1227.0	928.8	5.7	1.314
8	7.0	1273.4	975.2	6.6	1.248
9	8.0	1316.2	1018.1	7.5	1.193
10	9.0	1356.2	1058.0	8.4	1.147
11	10.0	1399.9	1101.7	9.2	1.105
12	12.0	1474.5	1176.3	10.9	1.032
13	14.0	1546.7	1248.5	12.5	0.971
14	16.0	1615.0	1316.9	14.1	0.920
15	18.0	1677.4	1379.3	15.6	0.876
16	20.0	1736.1	1437.9	17.1	0.835
17	22.0	1795.7	1497.6	18.5	0.801
18	24.0	1851.8	1553.7	19.9	0.770
19	26.0	1905.4	1607.2	21.3	0.740
20	28.0	1949.8	1651.7	22.6	0.715
21	30.0	1998.6	1700.4	23.9	0.690
22	35.0	2100.0	1801.8	26.9	0.639
23	40.0	2183.0	1884.9	29.8	0.594
24	45.0	2248.1	1949.9	32.5	0.557
25	50.0	2295.5	1997.4	35.1	0.524
26	55.0	2328.1	2030.0	37.5	0.495
27	60.0	2349.9	2051.8	39.7	0.470
28	70.0	2377.6	2079.4	43.8	0.427
29	80.0	2392.5	2094.4	47.6	0.392
30	90.0	2401.4	2103.2	50.9	0.362
31	100.0	2407.7	2109.6	54.0	0.337
32	110.0	2413.1	2115.0	56.7	0.315
33	120.0	2416.5	2118.3	59.3	0.296
34	135.0	2421.5	2123.3	62.7	0.271
35	150.0	2426.2	2128.0	65.8	0.251
36	165.0	2429.6	2131.4	68.5	0.233
G 37	183.4	2433.6	2135.4	71.5	0.215

REMARKS:

TICKET NO: 00691200

GAUGE NO: 6039
















CLOCK NO: 9756 HOUR: 24

DEPTH: 5679.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	215.5			
2	3.0	153.1	-62.4		
3	6.0	155.7	2.6		
4	9.0	178.4	22.8		
5	12.0	196.2	17.8		
6	15.0	209.3	13.2		
7	18.0	218.6	9.2		
8	21.0	229.0	10.4		
9	24.0	238.5	9.5		
C 10	28.5	244.7	6.2		
FIRST CLOSED-IN					
C 1	0.0	244.7			
2	1.0	1002.7	757.9	1.0	1.475
3	2.0	1378.6	1133.9	1.9	1.188
4	3.0	1592.2	1347.5	2.7	1.022
5	4.0	1716.6	1471.9	3.5	0.909
6	5.0	1789.8	1545.1	4.2	0.830
7	6.0	1861.6	1616.9	4.9	0.762
8	7.1	1946.6	1701.9	5.7	0.702
9	8.0	1999.6	1754.9	6.3	0.658
10	9.0	2058.1	1813.3	6.9	0.619
11	10.0	2098.7	1854.0	7.4	0.587
12	12.0	2204.1	1959.4	8.4	0.529
13	14.0	2282.4	2037.7	9.4	0.483
14	16.0	2362.1	2117.4	10.3	0.444
15	18.0	2432.5	2187.8	11.0	0.413
16	20.0	2493.5	2248.8	11.8	0.385
17	22.0	2552.3	2307.6	12.4	0.361
18	24.0	2603.1	2358.4	13.0	0.341
19	26.0	2645.9	2401.2	13.6	0.321
20	28.0	2684.1	2439.4	14.1	0.305
21	30.0	2715.0	2470.3	14.6	0.290
22	35.0	2764.8	2520.0	15.7	0.259
23	40.0	2797.9	2553.1	16.7	0.234
24	45.0	2814.5	2569.8	17.5	0.213
25	50.0	2823.9	2579.2	18.2	0.196
26	55.0	2828.2	2583.5	18.8	0.181
D 27	59.5	2830.8	2586.1	19.3	0.170
SECOND FLOW					
E 1	0.0	165.4			
2	5.0	172.4	6.9		
3	10.0	209.0	36.6		
4	15.0	229.8	20.9		
5	20.0	249.9	20.1		
6	25.0	266.2	16.3		
7	30.0	273.2	7.1		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	280.8	7.6		
9	40.0	283.0	2.2		
10	45.0	289.9	6.9		
11	50.0	292.6	2.7		
12	55.0	298.0	5.4		
13	60.0	302.0	3.9		
14	65.0	304.0	2.0		
15	70.0	308.1	4.1		
16	75.0	313.2	5.2		
17	80.0	316.2	3.0		
18	85.0	318.9	2.7		
F 19	88.6	321.6	2.7		
SECOND CLOSED-IN					
F 1	0.0	321.6			
2	1.0	524.2	202.6	1.0	2.064
3	2.0	651.3	329.7	2.0	1.773
4	3.0	847.1	525.5	3.0	1.598
5	4.0	1003.8	682.2	3.9	1.482
6	5.0	1107.7	786.1	4.8	1.385
7	6.0	1172.7	851.0	5.7	1.312
8	7.0	1226.4	904.8	6.6	1.251
9	8.0	1279.4	957.8	7.5	1.195
10	9.0	1321.5	999.9	8.4	1.145
11	10.0	1359.4	1037.7	9.2	1.106
12	12.0	1437.4	1115.8	10.9	1.032
13	14.0	1510.7	1189.1	12.5	0.971
14	16.0	1579.4	1257.8	14.1	0.920
15	18.0	1644.5	1322.9	15.6	0.875
16	20.0	1711.9	1390.3	17.1	0.837
17	22.0	1772.8	1451.2	18.5	0.801
18	24.0	1829.4	1507.8	19.9	0.769
19	26.0	1888.7	1567.1	21.3	0.741
20	28.0	1941.9	1620.2	22.6	0.715
21	30.0	1992.4	1670.8	23.9	0.691
22	35.0	2097.6	1776.0	26.9	0.639
23	40.0	2190.1	1868.5	29.8	0.595
24	45.0	2259.9	1938.3	32.5	0.557
25	50.0	2313.8	1992.2	35.1	0.524
26	55.0	2350.8	2029.2	37.4	0.496
27	60.0	2376.0	2054.4	39.7	0.470
28	70.0	2406.9	2085.3	43.8	0.427
29	80.0	2424.6	2103.0	47.5	0.392
30	90.0	2432.5	2110.9	50.9	0.362
31	100.0	2439.3	2117.7	54.0	0.337
32	110.0	2440.8	2119.2	56.7	0.315
33	120.0	2447.4	2125.8	59.3	0.296
34	135.0	2454.2	2132.6	62.7	0.271
35	150.0	2458.4	2136.8	65.8	0.251
36	165.0	2462.9	2141.3	68.5	0.233
G 37	183.4	2466.0	2144.4	71.5	0.215

REMARKS:

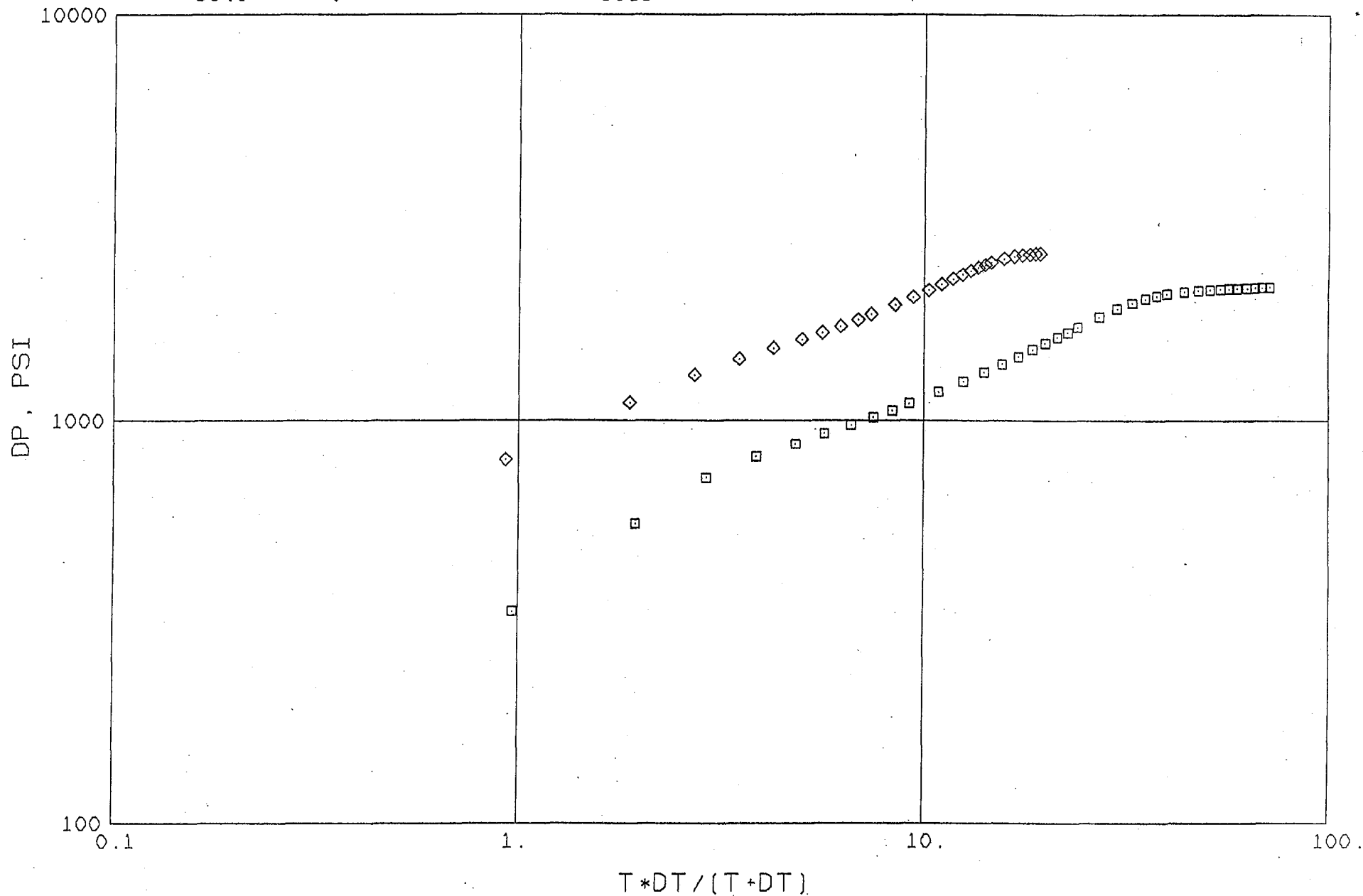
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4971.0	
3		DRILL COLLARS.....	6.250	2.500	531.0	
50		IMPACT REVERSING SUB.....	6.250	2.500	1.0	5500.0
3		DRILL COLLARS.....	6.250	2.500	91.0	
5		CROSSOVER.....	6.250	2.500	1.0	
51		PUMP OUT REVERSING SUB.....	6.250	2.500	1.0	5593.0
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5605.0
80		AP RUNNING CASE.....	5.000	2.340	4.0	5607.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5622.0
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5628.0
20		FLUSH JOINT ANCHOR.....	5.750	3.240	48.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5679.0
TOTAL DEPTH					5682.0	

EQUIPMENT DATA

TICKET NO 00691200

GAUGE NO CIP 1 2
6040 ◇ □

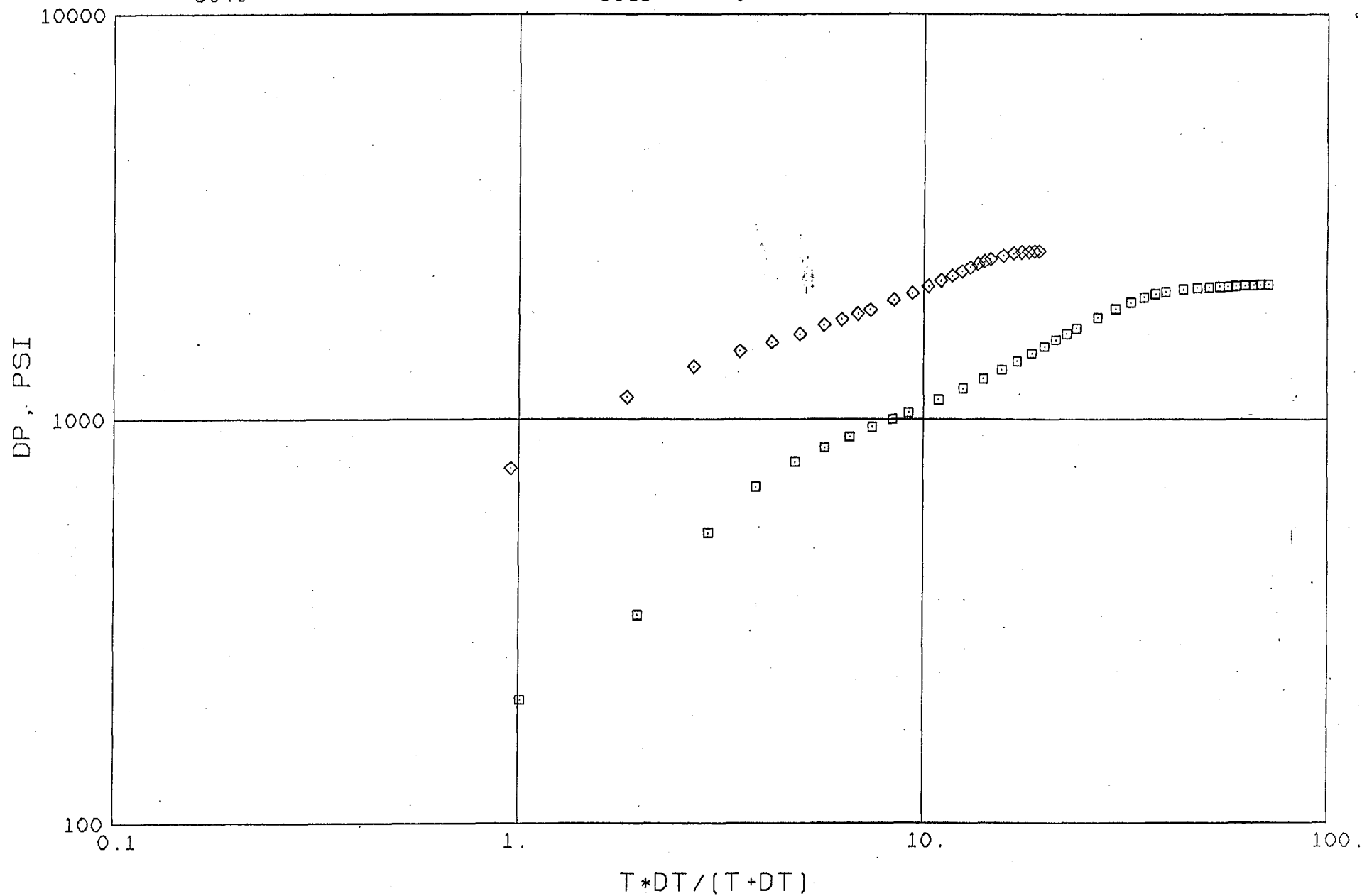
GAUGE NO CIP 1 2
6039



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

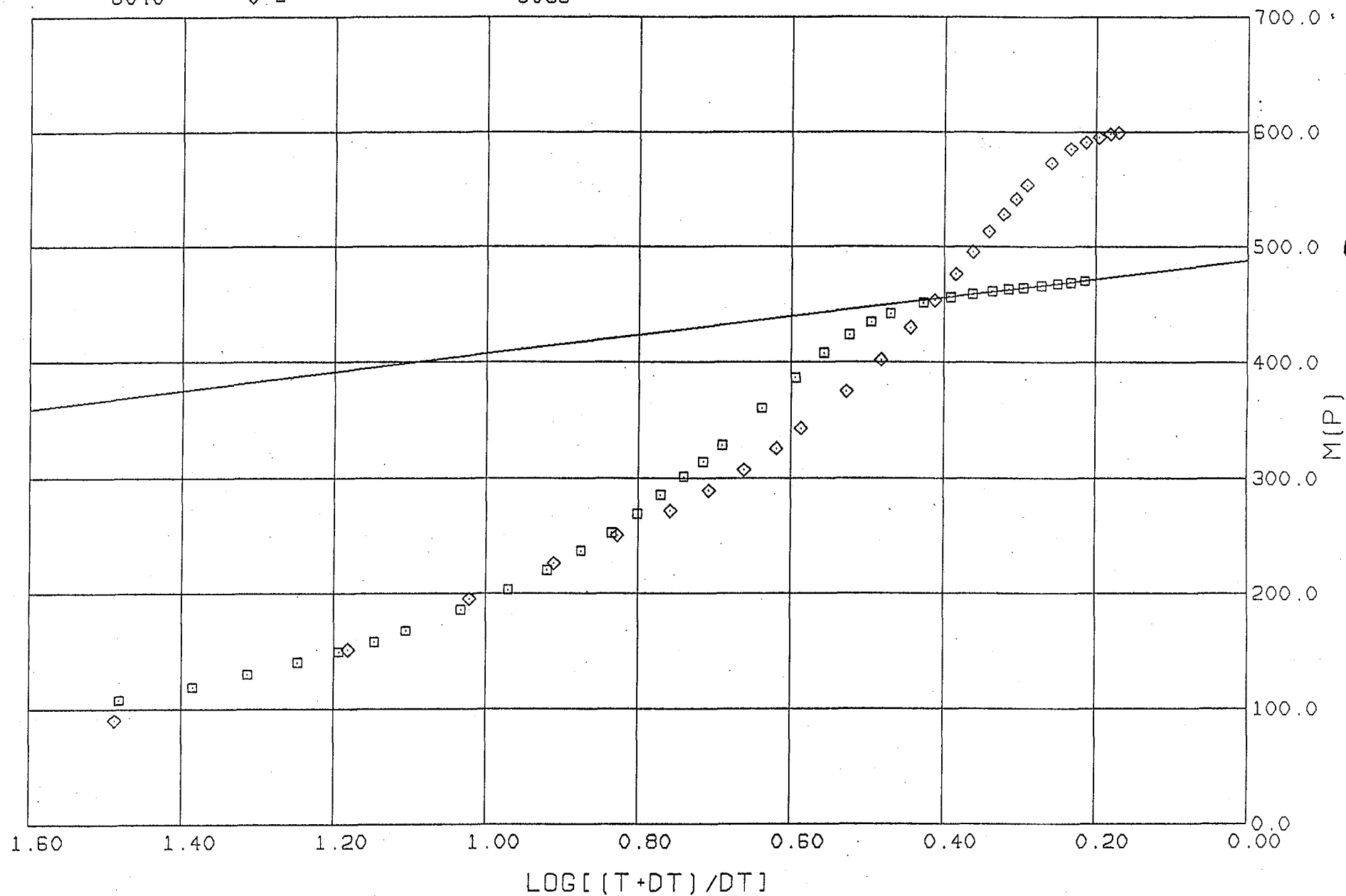
GAUGE NO CIP 1 2
6039 \diamond \square



TICKET NO 00691200

GAUGE NO CIP 1 2
6040 \diamond \square

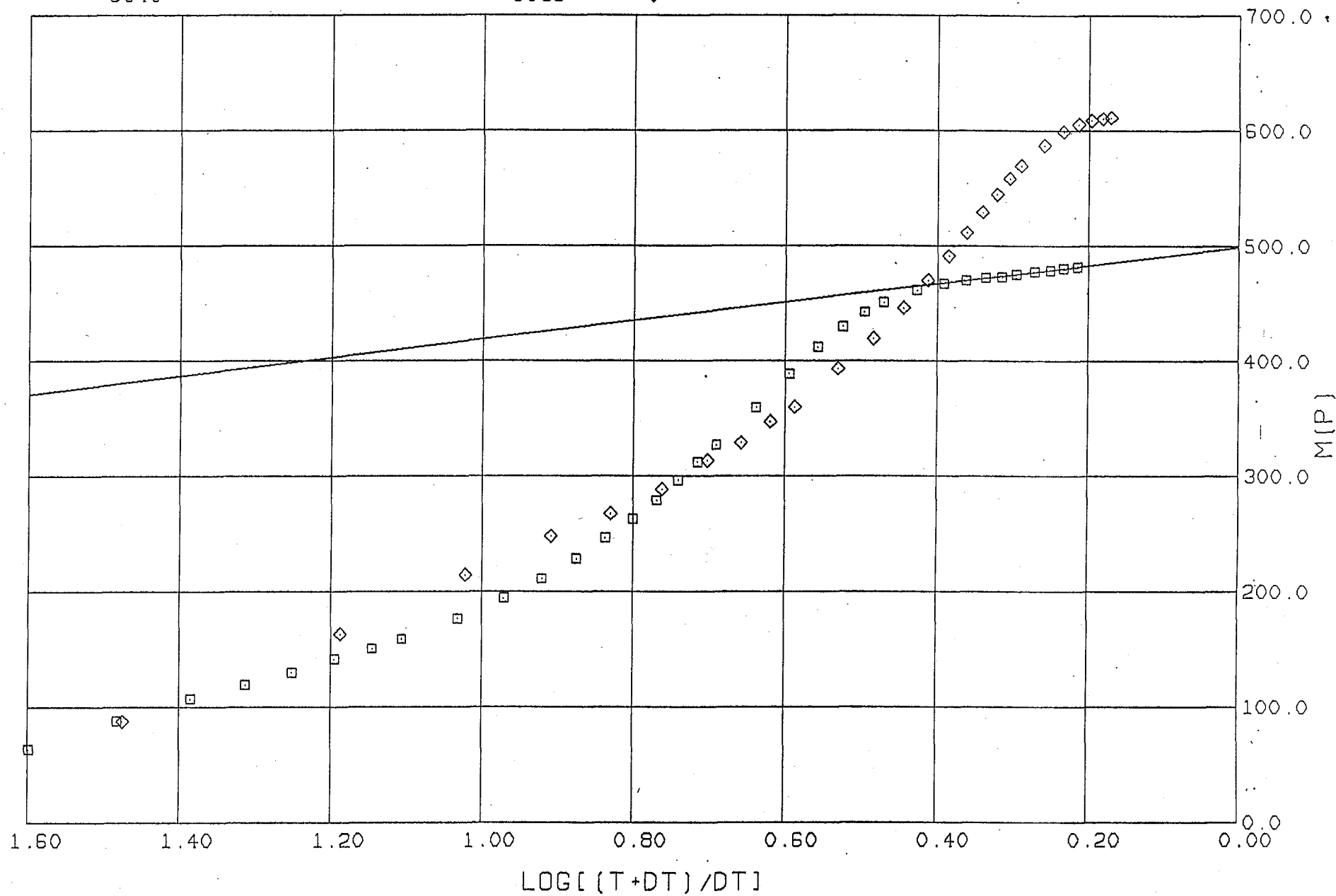
GAUGE NO CIP 1 2
6039 \square \diamond



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

GAUGE NO CIP 1 2
6039 \diamond \square



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY 0.600 TEMPERATURE 123.0 °F
 NET PAY 0.0 ft POROSITY 10.0 %
 RADIUS OF WELL BORE 0.328 ft VISCOSITY 0.017 cp
 GAS DEVIATION FACTOR 0.842 GAS PROPERTIES AT 2516.0 psig
 SYSTEM COMPRESSIBILITY 315.12 $\times 10^{-6}$ vol/vol/psi

GAUGE NUMBER	6040	6039					
GAUGE DEPTH	5607.0	5679.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	298.2	321.6					psig
TOTAL FLOW TIME	117.2	117.2					min
CALC. STATIC PRESSURE P^*	2483.9	2516.0					psig
EXTRAPOLATED PRESSURE $m(P^*)$	487.7	498.8					$\frac{mmp \cdot si^2}{cp}$
ONE CYCLE PRESSURE $m(P_{10})$	407.5	418.8					$\frac{mmp \cdot si^2}{cp}$
PRODUCTION RATE Q	116.0	116.0					MCFD
FLOW CAPACITY kh	1.38024	1.38371					md-ft
PERMEABILITY k	0.02556	0.02562					md
SKIN FACTOR S	3.8	3.9					
DAMAGE RATIO DR	2.2	2.3					
INDICATED RATE MAX AOF_1	118.1	118.4					MCFD
INDICATED RATE MIN AOF_2	117.0	117.2					MCFD
THEORETICAL RATE $DR \times AOF_1$	261.3	267.8					MCFD
THEORETICAL RATE $DR \times AOF_2$	258.9	265.2					MCFD
RADIUS OF INVESTIGATION r_i	9.7	9.7					ft

REMARKS: CALCULATED RESULTS ARE EFFECTIVE TO GAS PRODUCTION.

RATE USED IN THE ANALYSIS WAS THE LAST REPORTED SEPARATOR RATE PRIOR TO THE SECOND CLOSED-IN PERIOD. THE CLOSED-IN PERIODS EXHIBITED ANOMALOUS BEHAVIOR EARLY; HOWEVER, THERE APPEARS TO BE A SEMI-LOG STRAIGHT LINE LATER IN THE SECOND BUILDUP.

LOSS OF PRESSURE BETWEEN THE FIRST AND SECOND CLOSED-IN PERIODS COULD INDICATE DEPLETION.

THE NET THICKNESS WAS ASSUMED TO BE TOTAL TESTED INTERVAL.

NOTICE:

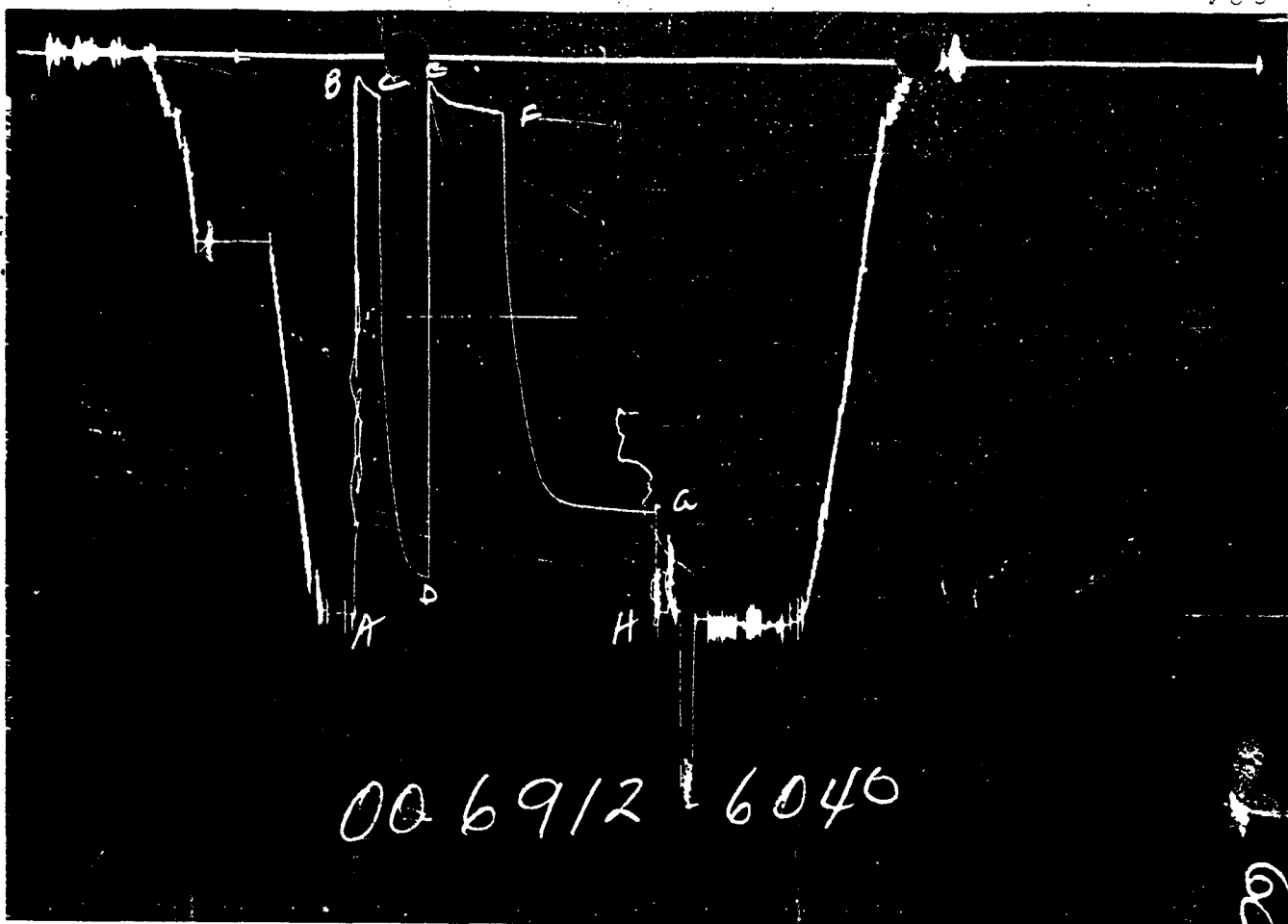
BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HRS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HRS. HRS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HRS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HRS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

<p>AMPOLEX (TEXAS), INC.</p> <p>LEASE : LOWER SQUAW POINT</p> <p>WELL NO.: 1</p> <p>TEST NO.: 1</p>	
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TICKET NO. 00691200
 08-DEC-92
 FARMINGTON

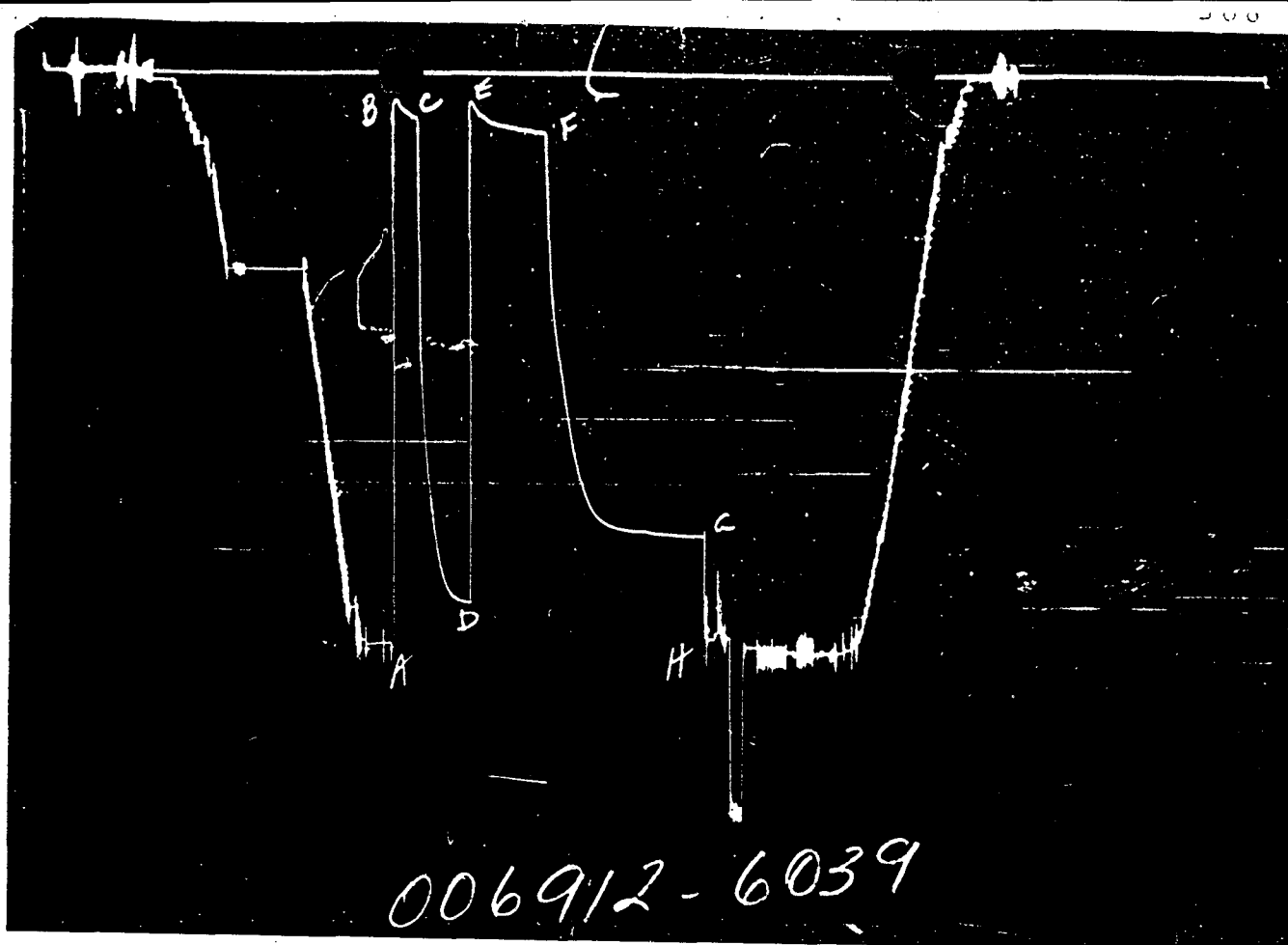
DEC 1 1992
 AMPOLEX U.S.A

LEGAL LOCATION SEC. - TWP. - RANG.	17 - 35 S - 26 E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH	SM
LEASE NAME	1	WELL NO.	1	TEST NO.	5628.0 - 5682.0	TESTED INTERVAL	AMPOLEX (TEXAS), INC.	LEASE OWNER/COMPANY NAME



GAUGE NO: 6040 DEPTH: 5607.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2970	2998.0			
B	INITIAL FIRST FLOW	81	159.9			
C	FINAL FIRST FLOW	188	218.0	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	188	218.0			
D	FINAL FIRST CLOSED-IN	2781	2798.2	60.0	59.5	C
E	INITIAL SECOND FLOW	135	144.0			
F	FINAL SECOND FLOW	322	298.2	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	322	298.2			
G	FINAL SECOND CLOSED-IN	2416	2433.6	180.0	183.4	C
H	FINAL HYDROSTATIC	2970	2969.5			



GAUGE NO: 6039 DEPTH: 5679.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3025	3050.0			
B	INITIAL FIRST FLOW	120	215.5			
C	FINAL FIRST FLOW	241	244.7	30.0	28.5	F
C	INITIAL FIRST CLOSED-IN	241	244.7			
D	FINAL FIRST CLOSED-IN	2828	2830.8	60.0	59.5	C
E	INITIAL SECOND FLOW	147	165.4			
F	FINAL SECOND FLOW	308	321.6	90.0	88.6	F
F	INITIAL SECOND CLOSED-IN	308	321.6			
G	FINAL SECOND CLOSED-IN	2504	2466.0	180.0	183.4	C
H	FINAL HYDROSTATIC	3025	3018.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HERMOSA

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 54.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 6103.0

TOTAL DEPTH (ft): 5682.0

PACKER DEPTH(S) (ft): 5622. 5628

FINAL SURFACE CHOKE (in): 0.25000

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 10.00

MUD VISCOSITY (sec): 48

ESTIMATED HOLE TEMP. (°F): 123

ACTUAL HOLE TEMP. (°F): 123 @ 5677.0 ft

TICKET NUMBER: 00691200

DATE: 11-14-92 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:
FARMINGTON

TESTER: KEN TROUTH

WITNESS: KEN WEST

DRILLING CONTRACTOR:
ARAPAHOE #11

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>2.700 @ 60 °F</u>	<u>2300</u> ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 270.0

cu.ft. OF GAS: 1.870

cc OF OIL: 300.0

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: 300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 42.0 @ 60 °F

GAS/OIL RATIO (cu.ft. per bbl): 991

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

3 BBLs. OF OIL (REVERSED OUT TO TANK)
45 BBLs. OF HIGHLY GAS AND OIL CUT DRILLING MUD

MEASURED FROM
TESTER VALVE

REMARKS:

- 1) GAS TO THE SURFACE IN 15 MINUTES GOING TO SEPARATOR....SEPARATOR 130' FROM FLOOR MANIFOLD - 2" LINE.
- 2) CHARTS INDICATE A MECHANICALLY SUCCESSFUL TEST.
- 3) CHARTS INDICATE MEDIUM PRODUCTIVITY WITH POSSIBLE FORMATION DAMAGE. LOSS OF APPROXIMATELY 350 PSI FROM FIRST CLOSED IN TO SECOND CLOSED IN PERIOD COULD INDICATE DEPLETION. THE LOSS IN PRESSURE COULD ALSO INDICATE SUPERCHARGE EFFECTS, HOWEVER A 30 MINUTE FIRST FLOW IS NORMALLY LONG ENOUGH TO REMOVE ANY SUPERCHARGE.

TYPE & SIZE MEASURING DEVICE: _____ SEPARATOR					TICKET NO: 00691200
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-13-92					
2230					ON LOCATION
11-14-92					
0030					LOADED GAUGES
0100					PICKED UP TOOLS; SLOWLY RAN IN HOLE
0545					MADE UP CONTROL HEAD
0610					SET WEIGHT ON PACKER
0615	BH				OPENED TOOL WITH STRONG BLOW
0619		4			STRONG BLOW
0625	.25	25			STRONG BLOW
0630		38			GAS TO THE SURFACE
		FCP	MCFD		
0635		50*	130.7		TURNUED THROUGH SEPARATOR
					*AS PER SEPARATOR WITH 1 1/4"
					PLATE
0640					FLARED GAS
0645					CLOSED TOOL
0745					OPENED TOOL WITH STRONG BLOW
0748					FLOWING THROUGH SEPARATOR
					(NOTE: PRESSURES AND RATES
					AS PER SEPARATOR WITH 1 1/4"
					PLATE)
		FCP	MCFD		
0800		90	158.3		
0815		91	149.3		
0830		87	136.8		
0845		84	126.9		
0900		83	118.8		
0915		82	116.0		CLOSED TOOL
1215					PULLED TOOL LOOSE
1220					PULLED 60 FEET, RIGGED TO
					REVERSE OUT
1230					REVERSED OUT
1330					CIRCULATED
1500					TRIPPED OUT OF HOLE
1800					BROKE DOWN TOOLS
1930					JOB COMPLETED

TICKET NO: 00691200

GAUGE NO: 6040

CLOCK NO: 13840 HOUR: 24

DEPTH: 5607.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	159.9			
2	3.0	120.2	-39.7		
3	6.0	126.9	6.7		
4	9.0	153.4	26.5		
5	12.0	169.7	16.3		
6	15.0	181.4	11.6		
7	18.0	191.0	9.6		
8	21.0	201.6	10.6		
9	24.0	211.3	9.8		
C 10	28.5	218.0	6.7		
FIRST CLOSED-IN					
C 1	0.0	218.0			
2	1.0	1017.6	799.6	0.9	1.487
3	2.0	1324.3	1106.3	1.9	1.181
4	3.0	1513.7	1295.7	2.7	1.021
5	4.0	1636.8	1418.7	3.5	0.911
6	5.0	1727.4	1509.4	4.2	0.828
7	6.0	1804.8	1586.8	5.0	0.758
8	7.0	1864.3	1646.3	5.6	0.707
9	8.0	1925.9	1707.9	6.2	0.661
10	9.0	1988.8	1770.8	6.9	0.619
11	10.0	2045.1	1827.0	7.4	0.587
12	12.0	2145.9	1927.9	8.5	0.528
13	14.0	2230.1	2012.1	9.4	0.482
14	16.0	2314.0	2096.0	10.3	0.444
15	18.0	2383.4	2165.4	11.0	0.412
16	20.0	2449.7	2231.6	11.8	0.385
17	22.0	2505.9	2287.8	12.4	0.361
18	24.0	2557.2	2339.2	13.0	0.341
19	26.0	2600.2	2382.2	13.6	0.322
20	28.0	2637.1	2419.1	14.1	0.305
21	30.0	2671.1	2453.0	14.6	0.291
22	35.0	2724.7	2506.7	15.7	0.259
23	40.0	2759.2	2541.2	16.7	0.234
24	45.0	2775.9	2557.9	17.5	0.213
25	50.0	2786.8	2568.8	18.2	0.196
26	55.0	2795.2	2577.2	18.8	0.182
D 27	59.5	2798.2	2580.1	19.3	0.170
SECOND FLOW					
E 1	0.0	144.0			
2	5.0	153.5	9.5		
3	10.0	194.2	40.7		
4	15.0	211.5	17.3		
5	20.0	231.2	19.7		
6	25.0	243.7	12.5		
7	30.0	250.3	6.7		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	257.8	7.5		
9	40.0	260.4	2.5		
10	45.0	265.6	5.2		
11	50.0	268.2	2.5		
12	55.0	276.1	7.9		
13	60.0	277.5	1.5		
14	65.0	281.4	3.9		
15	70.0	283.4	2.0		
16	75.0	290.0	6.6		
17	80.0	291.3	1.3		
18	85.0	296.1	4.8		
F 19	88.6	298.2	2.0		
SECOND CLOSED-IN					
F 1	0.0	298.2			
2	1.0	632.2	334.0	1.0	2.083
3	2.0	853.7	555.5	2.0	1.779
4	3.0	1019.2	721.0	2.9	1.604
5	4.0	1112.7	814.5	3.9	1.482
6	5.0	1172.3	874.2	4.8	1.385
7	6.0	1227.0	928.8	5.7	1.314
8	7.0	1273.4	975.2	6.6	1.248
9	8.0	1316.2	1018.1	7.5	1.193
10	9.0	1356.2	1058.0	8.4	1.147
11	10.0	1399.9	1101.7	9.2	1.105
12	12.0	1474.5	1176.3	10.9	1.032
13	14.0	1546.7	1248.5	12.5	0.971
14	16.0	1615.0	1316.9	14.1	0.920
15	18.0	1677.4	1379.3	15.6	0.876
16	20.0	1736.1	1437.9	17.1	0.835
17	22.0	1795.7	1497.6	18.5	0.801
18	24.0	1851.8	1553.7	19.9	0.770
19	26.0	1905.4	1607.2	21.3	0.740
20	28.0	1949.8	1651.7	22.6	0.715
21	30.0	1998.6	1700.4	23.9	0.690
22	35.0	2100.0	1801.8	26.9	0.639
23	40.0	2183.0	1884.9	29.8	0.594
24	45.0	2248.1	1949.9	32.5	0.557
25	50.0	2295.5	1997.4	35.1	0.524
26	55.0	2328.1	2030.0	37.5	0.495
27	60.0	2349.9	2051.8	39.7	0.470
28	70.0	2377.6	2079.4	43.8	0.427
29	80.0	2392.5	2094.4	47.6	0.392
30	90.0	2401.4	2103.2	50.9	0.362
31	100.0	2407.7	2109.6	54.0	0.337
32	110.0	2413.1	2115.0	56.7	0.315
33	120.0	2416.5	2118.3	59.3	0.296
34	135.0	2421.5	2123.3	62.7	0.271
35	150.0	2426.2	2128.0	65.8	0.251
36	165.0	2429.6	2131.4	68.5	0.233
G 37	183.4	2433.6	2135.4	71.5	0.215

REMARKS:

TICKET NO: 00691200

GAUGE NO: 6039
















CLOCK NO: 9756 HOUR: 24

DEPTH: 5679.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	215.5			
2	3.0	153.1	-62.4		
3	6.0	155.7	2.6		
4	9.0	178.4	22.8		
5	12.0	196.2	17.8		
6	15.0	209.3	13.2		
7	18.0	218.6	9.2		
8	21.0	229.0	10.4		
9	24.0	238.5	9.5		
C 10	28.5	244.7	6.2		
FIRST CLOSED-IN					
C 1	0.0	244.7			
2	1.0	1002.7	757.9	1.0	1.475
3	2.0	1378.6	1133.9	1.9	1.188
4	3.0	1592.2	1347.5	2.7	1.022
5	4.0	1716.6	1471.9	3.5	0.909
6	5.0	1789.8	1545.1	4.2	0.830
7	6.0	1861.6	1616.9	4.9	0.762
8	7.1	1946.6	1701.9	5.7	0.702
9	8.0	1999.6	1754.9	6.3	0.658
10	9.0	2058.1	1813.3	6.9	0.619
11	10.0	2098.7	1854.0	7.4	0.587
12	12.0	2204.1	1959.4	8.4	0.529
13	14.0	2282.4	2037.7	9.4	0.483
14	16.0	2362.1	2117.4	10.3	0.444
15	18.0	2432.5	2187.8	11.0	0.413
16	20.0	2493.5	2248.8	11.8	0.385
17	22.0	2552.3	2307.6	12.4	0.361
18	24.0	2603.1	2358.4	13.0	0.341
19	26.0	2645.9	2401.2	13.6	0.321
20	28.0	2684.1	2439.4	14.1	0.305
21	30.0	2715.0	2470.3	14.6	0.290
22	35.0	2764.8	2520.0	15.7	0.259
23	40.0	2797.9	2553.1	16.7	0.234
24	45.0	2814.5	2569.8	17.5	0.213
25	50.0	2823.9	2579.2	18.2	0.196
26	55.0	2828.2	2583.5	18.8	0.181
D 27	59.5	2830.8	2586.1	19.3	0.170
SECOND FLOW					
E 1	0.0	165.4			
2	5.0	172.4	6.9		
3	10.0	209.0	36.6		
4	15.0	229.8	20.9		
5	20.0	249.9	20.1		
6	25.0	266.2	16.3		
7	30.0	273.2	7.1		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	35.0	280.8	7.6		
9	40.0	283.0	2.2		
10	45.0	289.9	6.9		
11	50.0	292.6	2.7		
12	55.0	298.0	5.4		
13	60.0	302.0	3.9		
14	65.0	304.0	2.0		
15	70.0	308.1	4.1		
16	75.0	313.2	5.2		
17	80.0	316.2	3.0		
18	85.0	318.9	2.7		
F 19	88.6	321.6	2.7		
SECOND CLOSED-IN					
F 1	0.0	321.6			
2	1.0	524.2	202.6	1.0	2.064
3	2.0	651.3	329.7	2.0	1.773
4	3.0	847.1	525.5	3.0	1.598
5	4.0	1003.8	682.2	3.9	1.482
6	5.0	1107.7	786.1	4.8	1.385
7	6.0	1172.7	851.0	5.7	1.312
8	7.0	1226.4	904.8	6.6	1.251
9	8.0	1279.4	957.8	7.5	1.195
10	9.0	1321.5	999.9	8.4	1.145
11	10.0	1359.4	1037.7	9.2	1.106
12	12.0	1437.4	1115.8	10.9	1.032
13	14.0	1510.7	1189.1	12.5	0.971
14	16.0	1579.4	1257.8	14.1	0.920
15	18.0	1644.5	1322.9	15.6	0.875
16	20.0	1711.9	1390.3	17.1	0.837
17	22.0	1772.8	1451.2	18.5	0.801
18	24.0	1829.4	1507.8	19.9	0.769
19	26.0	1888.7	1567.1	21.3	0.741
20	28.0	1941.9	1620.2	22.6	0.715
21	30.0	1992.4	1670.8	23.9	0.691
22	35.0	2097.6	1776.0	26.9	0.639
23	40.0	2190.1	1868.5	29.8	0.595
24	45.0	2259.9	1938.3	32.5	0.557
25	50.0	2313.8	1992.2	35.1	0.524
26	55.0	2350.8	2029.2	37.4	0.496
27	60.0	2376.0	2054.4	39.7	0.470
28	70.0	2406.9	2085.3	43.8	0.427
29	80.0	2424.6	2103.0	47.5	0.392
30	90.0	2432.5	2110.9	50.9	0.362
31	100.0	2439.3	2117.7	54.0	0.337
32	110.0	2440.8	2119.2	56.7	0.315
33	120.0	2447.4	2125.8	59.3	0.296
34	135.0	2454.2	2132.6	62.7	0.271
35	150.0	2458.4	2136.8	65.8	0.251
36	165.0	2462.9	2141.3	68.5	0.233
G 37	183.4	2466.0	2144.4	71.5	0.215

REMARKS:

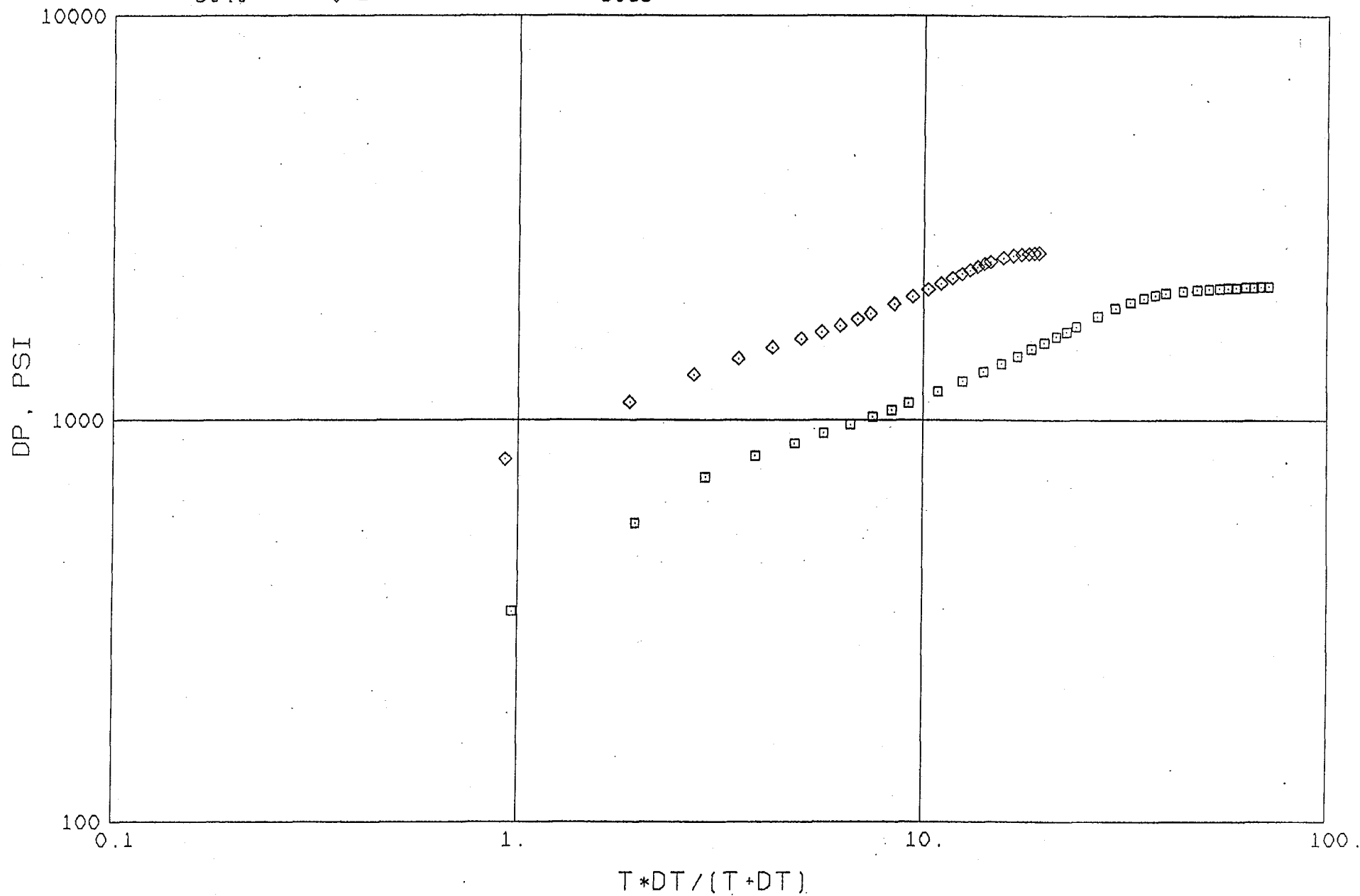
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4971.0	
3		DRILL COLLARS.....	6.250	2.500	531.0	
50		IMPACT REVERSING SUB.....	6.250	2.500	1.0	5500.0
3		DRILL COLLARS.....	6.250	2.500	91.0	
5		CROSSOVER.....	6.250	2.500	1.0	
51		PUMP OUT REVERSING SUB.....	6.250	2.500	1.0	5593.0
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5605.0
80		AP RUNNING CASE.....	5.000	2.340	4.0	5607.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5622.0
70		OPEN HOLE PACKER.....	6.750	1.580	6.0	5628.0
20		FLUSH JOINT ANCHOR.....	5.750	3.240	48.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5679.0
TOTAL DEPTH					5682.0	

EQUIPMENT DATA

TICKET NO 00691200

GAUGE NO CIP 1 2
6040 \diamond \square

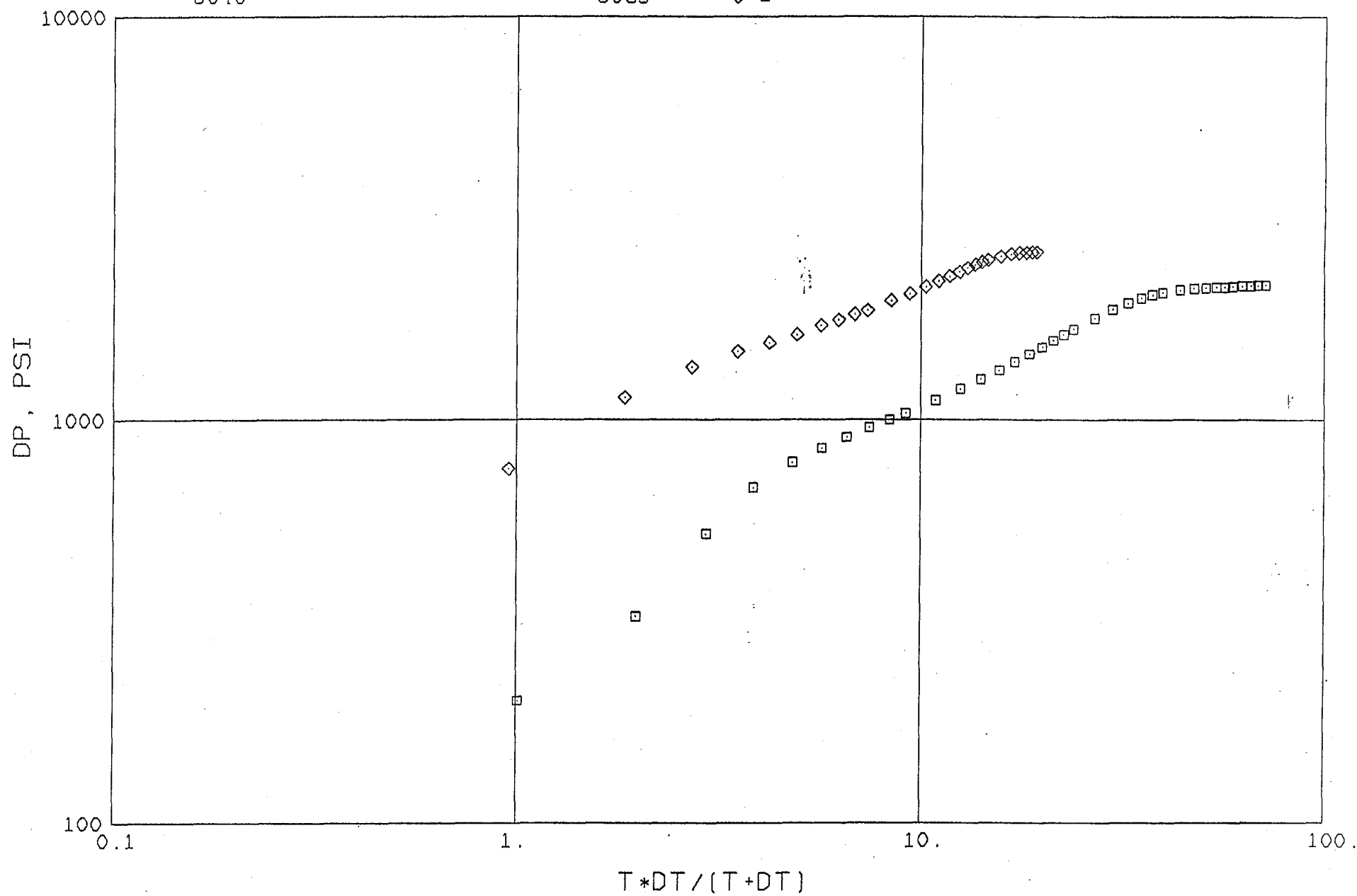
GAUGE NO CIP 1 2
6039



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

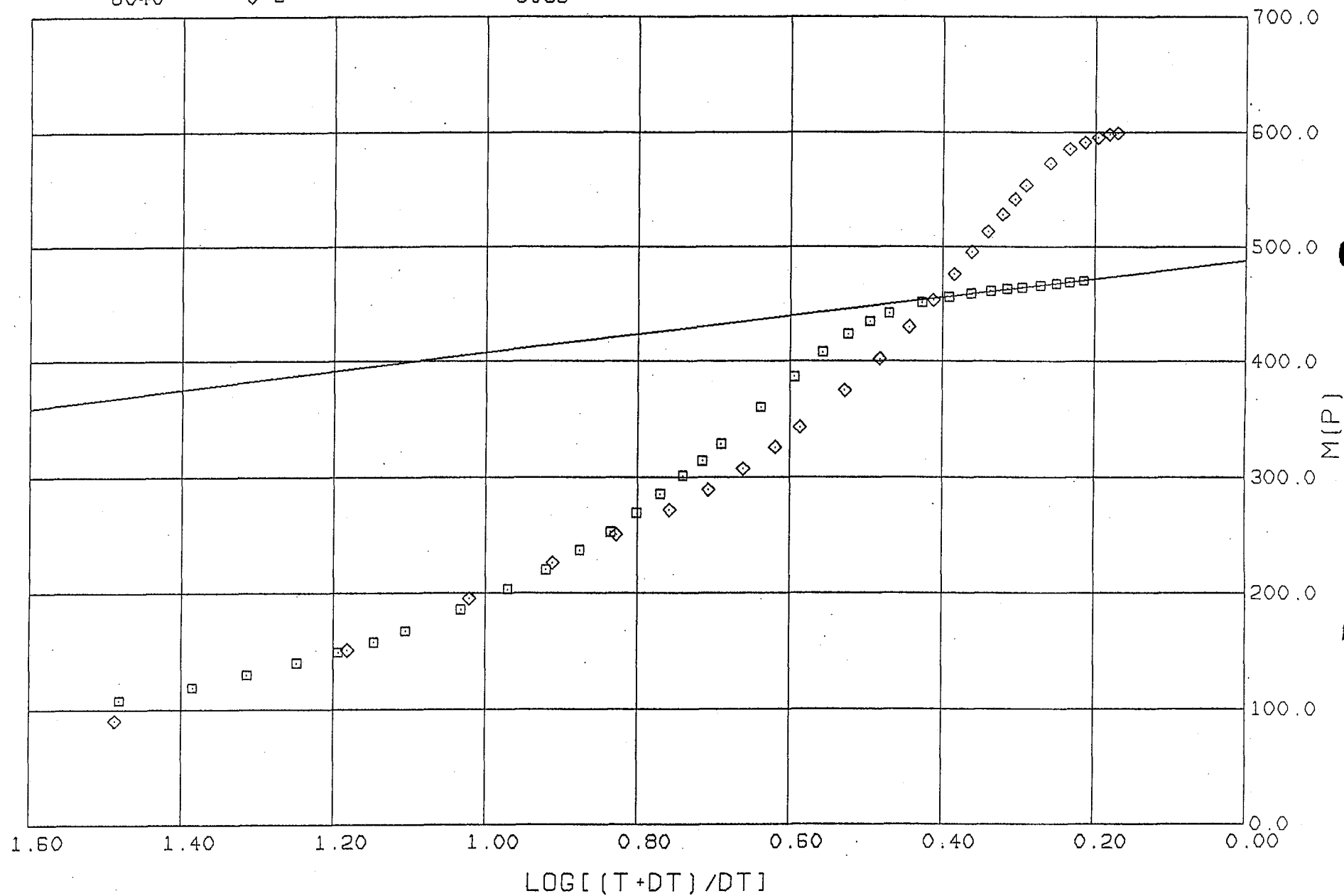
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TICKET NO 00691200

GAUGE NO CIP 1 2
6040 \diamond \square

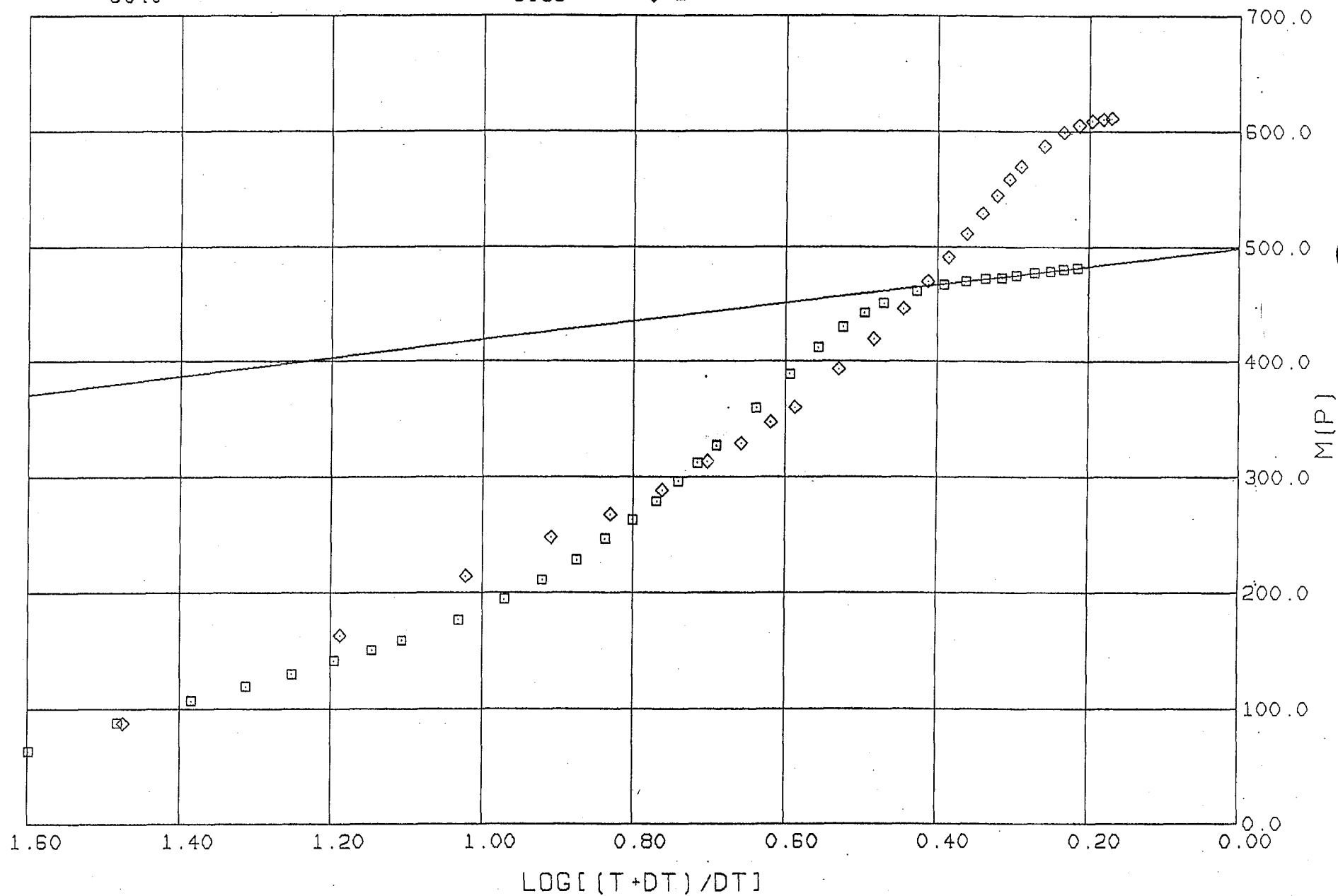
GAUGE NO CIP 1 2
6039 \diamond \square



TICKET NO 00691200

GAUGE NO CIP 1 2
6040

GAUGE NO CIP 1 2
6039 \diamond \square



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY _____ 0.600 _____ TEMPERATURE _____ 123.0 _____ °F
 NET PAY _____ 0.0 ft _____ POROSITY _____ 10.0 _____ %
 RADIUS OF WELL BORE _____ 0.328 ft _____ VISCOSITY _____ 0.017 _____ cp
 GAS DEVIATION FACTOR _____ 0.842 _____ GAS PROPERTIES AT _____ 2516.0 _____ p sig
 SYSTEM COMPRESSIBILITY _____ 315.12 $\times 10^{-6}$ vol/vol/psi

GAUGE NUMBER	6040	6039					
GAUGE DEPTH	5607.0	5679.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	298.2	321.6					p sig
TOTAL FLOW TIME	117.2	117.2					min
CALC. STATIC PRESSURE P^*	2483.9	2516.0					p sig
EXTRAPOLATED PRESSURE $m(P^*)$	487.7	498.8					$\frac{mmp\ si^2}{cp}$
ONE CYCLE PRESSURE $m(P_{10})$	407.5	418.8					$\frac{mmp\ si^2}{cp}$
PRODUCTION RATE Q	116.0	116.0					MCFD
FLOW CAPACITY kh	1.38024	1.38371					md-ft
PERMEABILITY k	0.02556	0.02562					md
SKIN FACTOR S	3.8	3.9					
DAMAGE RATIO DR	2.2	2.3					
INDICATED RATE MAX AOF_1	118.1	118.4					MCFD
INDICATED RATE MIN AOF_2	117.0	117.2					MCFD
THEORETICAL RATE $DR \times AOF_1$	261.3	267.8					MCFD
THEORETICAL RATE $DR \times AOF_2$	258.9	265.2					MCFD
RADIUS OF INVESTIGATION r_i	9.7	9.7					ft

REMARKS: CALCULATED RESULTS ARE EFFECTIVE TO GAS PRODUCTION.

RATE USED IN THE ANALYSIS WAS THE LAST REPORTED SEPARATOR RATE PRIOR TO THE SECOND CLOSED-IN PERIOD. THE CLOSED-IN PERIODS EXHIBITED ANOMALOUS BEHAVIOR EARLY; HOWEVER, THERE APPEARS TO BE A SEMI-LOG STRAIGHT LINE LATER IN THE SECOND BUILDUP.

LOSS OF PRESSURE BETWEEN THE FIRST AND SECOND CLOSED-IN PERIODS COULD INDICATE DEPLETION.

THE NET THICKNESS WAS ASSUMED TO BE TOTAL TESTED INTERVAL.

NOTICE:

BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HRS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HRS. HRS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HRS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HRS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other
instruction
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

2. NAME OF OPERATOR

Ampolex (Texas), Inc.

3. ADDRESS OF OPERATOR

1225 17th Street, Suite #3000, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 684' FWL & 624' FSL SW SW

At top prod. interval reported below

At total depth SAME

14. PERMIT NO.

43-037-31687

DATE ISSUED

09/11/92

15. DATE SPUDDED

11/02/92

16. DATE T.D. REACHED

11/17/92

17. DATE COMPL. (Ready to prod.)

11-19-92 PA

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)*

6,091' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6,171'

21. PLUG, BACK T.D., MD & TVD

--

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

FDC-CNL; LSS; DLL-MSFL; FMS 11-24-92

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1,897'	12-1/4"	670 sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION

P & A

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

Plugged and Abandoned

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DST; Core was not analyzed.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Robert C. Ince

Senior Petroleum Engineer

DATE 12/30/92

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):					38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
DST #1 (Hermosa)	5,628'	5,682'	<p>Opened tool @ 6:15 a.m. Inside Recorder 5,607': IF 159-218 psi; FF 144-298 psi; ISIP 2,798 psi; FSIP 2,433 psi.</p> <p>Outside Recorder 5,679': IF 215-244 psi; FF 165-321 psi; ISIP 2,830 psi; FSIP 2,466 psi.</p> <p>Recovered 3 B0, 45 bbls highly gas & oil cut drilling mud.</p> <p>Sampler Recovery: 1.870cc Gas 300cc Oil</p> <p>GTS in 15 minutes. Maximum flow rate 158 MCFGPD.</p> <p>Recovered 57'. Core was not analyzed.</p>		Shinarump Cutler Hermosa Ismay Desert Creek Akah	2,692' 2,790' 4,608' 5,803' 6,041' 6,134'	
Core #1	6,090'	6,150'					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

U-57609

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Lower Squaw Point

8. Well Name and No.

Lower Squaw Point #1

9. API Well No.

43-037-31687

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Ampolex (Texas), Inc.

3. Address and Telephone No.

1225 17th Street, Suite #3000, Denver, CO 80202 (303) 297-1000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW SW Section 17-T37S-R26E

684' FWL & 624' FSL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other PLUGGING DATE ADDED

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set cement plugs as follows:

6,167' - 5,967' 60 SX
4,708' - 4,508' 100 SX (Tagged @ 4,468')
1,997' - 1,797' 85 SX
50' - Surface 20 SX

Set dry hole marker.

Well plugged and abandoned 11/19/92.

RECEIVED

JUN 07 1993

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed Robert C. Greenaway Senior Petroleum Engineer

Date June 3, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

DRY HOLE

NOV 15 1993

2. Name of Operator

Ampolex (Texas), Inc.

DIVISION OF

3. Address and Telephone No.

1050 17th Street, Suite #2500, Denver, CO 80265 (303) 895-9000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW SW Section 17-T37S-R26E
684' FWL & 624' FSL

5. Lease Designation and Serial No.

U-57609

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lower Squaw Point #1

9. API Well No.

43-037-31687

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Reserve pit back-filled, wellsite re-countoured, topsoil re-laced and re-seeding per A.P.D. stipulations completed.

cc: State of Utah

14. I hereby certify that the foregoing is true and correct

Signed Robert C. Aronson Title Senior Petroleum Engineer

Date November 11, 1993

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side